

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

API 47-095-02356 County Tyler District Centerville
Quad Middlebourne 7.5' Pad Name Vera Pad Field/Pool Name -----
Farm name Vera O. Thomas Well Number Emerger Unit 4H
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 4363967m Easting 508280m
Landing Point of Curve Northing 4364028.86m Easting 509089.00m
Bottom Hole Northing 4361756m Easting 509930m

Elevation (ft) 1148.1' 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 7/14/2016 Date drilling commenced 3/22/2017 Date drilling ceased 8/5/2017
Date completion activities began 1/26/2018 Date completion activities ceased 7/7/2018
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 65', 215', 261', 399' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 620', 1614', 1974' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 620', 879' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

API 47-095 - 02356 Farm name Vera O. Thomas Well number Emerger Unit 4H

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"	714'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2520'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15912'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	7327'		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	200 sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	596 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	928 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	740 sx (Lead) 1585 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)		~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15912' MD, 6593' TVD (BHL), 6599' (Deepest Point Drilled) Loggers TD (ft) 15912' MD

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

Plug back procedure N/A

Kick off depth (ft) 6516'

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- 095 - 02356 Farm name Vera O. Thomas Well number Emerger Unit 4H

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	6568' (TOP)	TVD	7384' (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 6498 mcfpd Oil 144 bpd NGL --- bpd Water 15 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.

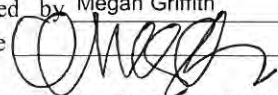
Drilling Contractor Frontier Drilling LLC
 Address 562 Spring Run Road City Pennsboro State WV Zip 26415

Logging Company Schlumberger
 Address 5599 San Felipe Street 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 2/8/2019

API 47-095-02356 Farm Name Vera O. Thomas Well Number Emerger Unit 4H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/14/2018	15648	15813	60	Marcellus
2	5/15/2018	15451	15617	60	Marcellus
3	5/15/2018	15255	15421	60	Marcellus
4	5/15/2018	15059	15224	60	Marcellus
5	5/16/2018	14862	15028	60	Marcellus
6	5/16/2018	14666	14832	60	Marcellus
7	5/17/2018	14470	14635	60	Marcellus
8	5/17/2018	14274	14439	60	Marcellus
9	5/17/2018	14077	14243	60	Marcellus
10	5/18/2018	13881	14047	60	Marcellus
11	5/19/2018	13685	13850	60	Marcellus
12	5/19/2018	13488	13654	60	Marcellus
13	5/19/2018	13292	13458	60	Marcellus
14	5/20/2018	13096	13261	60	Marcellus
15	5/20/2018	12900	13065	60	Marcellus
16	5/20/2018	12703	12869	60	Marcellus
17	5/21/2018	12507	12673	60	Marcellus
18	5/21/2018	12311	12476	60	Marcellus
19	5/21/2018	12115	12280	60	Marcellus
20	5/22/2018	11918	12084	60	Marcellus
21	5/22/2018	11722	11888	60	Marcellus
22	5/22/2018	11526	11691	60	Marcellus
23	5/23/2018	11329	11495	60	Marcellus
24	5/23/2018	11133	11299	60	Marcellus
25	5/25/2018	10937	11102	60	Marcellus
26	5/25/2018	10741	10906	60	Marcellus
27	5/26/2018	10544	10710	60	Marcellus
28	5/26/2018	10348	10514	60	Marcellus
29	5/26/2018	10152	10317	60	Marcellus
30	5/27/2018	9955	10121	60	Marcellus
31	5/27/2018	9759	9925	60	Marcellus
32	5/27/2018	9563	9728	60	Marcellus
33	5/28/2018	9367	9532	60	Marcellus
34	5/28/2018	9170	9336	60	Marcellus
35	5/28/2018	8974	9140	60	Marcellus
36	5/29/2018	8778	8943	60	Marcellus
37	5/30/2018	8582	8747	60	Marcellus
38	5/30/2018	8385	8551	60	Marcellus
39	5/31/2018	8189	8355	60	Marcellus
40	5/31/2018	7993	8158	60	Marcellus
41	5/31/2018	7796	7962	60	Marcellus
42	5/31/2018	7600	7766	60	Marcellus
43	6/1/2018	7404	7569	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	5/14/2018	75.6	7279	5587	3776	16642	10722	N/A
2	5/15/2018	78.4	7589	6297	3833	17719	10041	N/A
3	5/15/2018	75	7553	2760	3767	14080	10427	N/A
4	5/15/2018	76.4	7481	4472	3932	15885	10354	N/A
5	5/16/2018	75.9	7759	6050	3951	17760	10237	N/A
6	5/16/2018	49.9	8204	5796	4017	18017	14501	N/A
7	5/17/2018	76.2	7599	6044	3888	17531	9722	N/A
8	5/17/2018	74.7	7598	4751	4089	16438	10201	N/A
9	5/17/2018	74.8	6354	6354	4119	16827	10978	N/A
10	5/18/2018	75	7660	4890	4107	16657	11999	N/A
11	5/19/2018	75.3	7701	4870	4021	16592	10452	N/A
12	5/19/2018	73	8051	4464	4160	16675	10401	N/A
13	5/19/2018	58.4	8045	5062	3957	17064	13049	N/A
14	5/20/2018	73.7	7288	4907	4080	16275	10268	N/A
15	5/20/2018	75.9	7507	5818	3949	17274	9687	N/A
16	5/20/2018	75.5	7428	4643	3929	16000	10346	N/A
17	5/21/2018	80	7346	4910	3997	16253	10009	N/A
18	5/21/2018	80	7448	5725	4117	17290	10414	N/A
19	5/21/2018	78	7360	4625	4035	16020	9947	N/A
20	5/22/2018	80.4	7526	4788	3937	16251	9926	N/A
21	5/22/2018	76.8	7026	4597	4016	15639	10006	N/A
22	5/22/2018	72.7	6926	4377	4218	15521	13352	N/A
23	5/23/2018	76.2	7160	5896	4082	17138	9887	N/A
24	5/23/2018	76	7011	5869	3871	16751	9674	N/A
25	5/25/2018	76.4	6901	5483	4068	16452	10210	N/A
26	5/25/2018	76.2	6946	4905	4133	15984	9484	N/A
27	5/26/2018	78.7	6767	6119	4020	16906	9553	N/A
28	5/26/2018	77.5	6771	5851	4110	16732	10015	N/A
29	5/26/2018	78.4	7015	6283	4091	17389	9667	N/A
30	5/27/2018	76.5	6800	5860	4068	16728	9738	N/A
31	5/27/2018	75.7	6813	5711	4041	16565	9632	N/A
32	5/27/2018	78.3	6993	6023	4121	17137	9592	N/A
33	5/28/2018	78	6783	5862	4244	16889	9533	N/A
34	5/28/2018	79.2	6809	5792	4160	16761	9789	N/A
35	5/28/2018	78.3	6881	5820	4267	16968	9609	N/A
36	5/29/2018	79.4	6859	5770	4309	16938	9802	N/A
37	5/30/2018	75.9	6582	6267	4224	17073	9571	N/A
38	5/30/2018	76.2	6842	6315	4221	17378	9517	N/A
39	5/31/2018	77.3	6524	5761	4204	16489	9517	N/A
40	5/31/2018	75.2	6514	6377	4306	17197	9669	N/A
41	5/31/2018	75.5	6468	5997	4211	16676	9463	N/A
42	5/31/2018	77	6382	5976	4222	16580	9357	N/A
43	6/1/2018	78.9	6068	5682	4144	15894	9612	N/A
		75.6	7,131	5,475	4,070	717,035	439,930	TOTAL

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Fresh Water	227'	N/A	227'	N/A
Sandstone	100	N/A	100	N/A
Sandy Siltstone	120	N/A	120	N/A
Sandy Shale	740	N/A	740	N/A
Calcareous Shale	880	N/A	880	N/A
Shaly Sandstone	920	N/A	920	N/A
Shaly Siltstone	1,020	N/A	1,020	N/A
Silty Shale	1,180	N/A	1,180	N/A
Sandstone	1,360	N/A	1,360	N/A
Sandy Shale	1,400	N/A	1,400	N/A
Shaly Sandstone	1,640	N/A	1,640	N/A
Silty Shale	1,700	N/A	1,700	N/A
Sandy Shale	1,780	N/A	1,780	N/A
Sandy Shale/Coal	1,920	N/A	1,920	N/A
Big Lime	2,066	N/A	2,115	N/A
Big Injun	2,242	N/A	2,304	N/A
Gantz Sand	2,684	N/A	2,768	N/A
Fifty Foot Sandstone	2,786	N/A	2,879	N/A
Gordon	2,940	N/A	3,052	N/A
Fifth Sandstone	3,118	N/A	3,250	N/A
Bayard	3,386	N/A	3,552	N/A
Warren	3,693	N/A	3,900	N/A
Speechley	4,023	N/A	4,276	N/A
Balltown	4,556	N/A	4,877	N/A
Bradford	4,736	N/A	5,083	N/A
Benson	4,994	N/A	5,378	N/A
Alexander	5,369	N/A	5,805	N/A
Rhinestreet	5,923	N/A	6,436	N/A
Sycamore	6,248	N/A	6,807	N/A
Middlesex	6,415	N/A	7,029	N/A
Burkett	6,510	N/A	7,211	N/A
Tully	6,540	N/A	7,288	N/A
Marcellus	6,568	N/A	7,384	N/A

*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:	5/14/2018
Job End Date:	6/2/2018
State:	West Virginia
County:	Tyler
API Number:	47-095-02356-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Emerger Unit 4H
Latitude:	39.40503300
Longitude:	-80.88479200
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,599
Total Base Water Volume (gal):	18,875,218
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
Fresh Water	Operator	Base Fluid	Water	7732-18-5	100.00000	87.82868	Density = 8.330
Ingredients	Listed Above	Listed Above	Water	7732-18-5	100.00000	0.11241	

SAND- PREMIUM WHITE-30/50, BULK	Halliburton	Proppant							
SP BREAKER	Halliburton	Breaker			Listed Below				
FR-76	Halliburton	Friction Reducer			Listed Below				
SCALECHEK LP-70	Halliburton	Scale Inhibitor			Listed Below				
HYDROCHLORI C ACID	Halliburton	Solvent			Listed Below				
WG-36 GELLING AGENT	Halliburton	Gelling Agent			Listed Below				
SAND-COMMON WHITE-100 MESH, SSA-2, BULK (100003676)	Halliburton	Proppant							
MC B-8614	Halliburton	Biocide			Listed Below				
					Listed Below				

SAND- PREMIUM WHITE-40/70, BULK	Halliburton	Proppant								
					Listed Below					
HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor								
					Listed Below					
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	12.01688			
			Hydrotreated light petroleum distillate	64742-47-8		30.00000	0.01607			
			Acrylamide acrylate copolymer	Proprietary		30.00000	0.01607		Denise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281-871-6226	
			Inorganic salt	Proprietary		30.00000	0.01607			
			Guar gum	9000-30-0		100.00000	0.01328			
			Hydrochloric acid	7647-01-0		15.00000	0.00976			
			Ethylene glycol	107-21-1		60.00000	0.00797			
			Glutaraldehyde	111-30-8		30.00000	0.00261			
			Telmer	Proprietary		10.00000	0.00133			
			Quaternary ammonium compounds, benzyl-C12- 16-alkyldimethyl chlorides	68424-85-1		5.00000	0.00043			
			Sodium persulfate	7775-27-1		100.00000	0.00042			
			Sodium polyacrylate	9003-04-7		1.00000	0.00013			
			Ethanol	64-17-5		1.00000	0.00009			
			Methanol	67-56-1		60.00000	0.00008			
			Ethoxylated alcohols	Proprietary		30.00000	0.00003			
			Fatty acids, tall oil	Proprietary		30.00000	0.00003			
			Modified thiourea polymer	Proprietary		30.00000	0.00003			

			Olefins	Proprietary	5.00000	0.00001
			Propargyl alcohol	107-19-7	10.00000	0.00001
			Phosphoric acid	7664-38-2	0.10000	0.00001
			Acrylic acid	79-10-7	0.01000	0.00000
			Sodium sulfate	7757-82-6	0.10000	0.00000

* 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)

LATITUDE 39°27'30"

8,186'

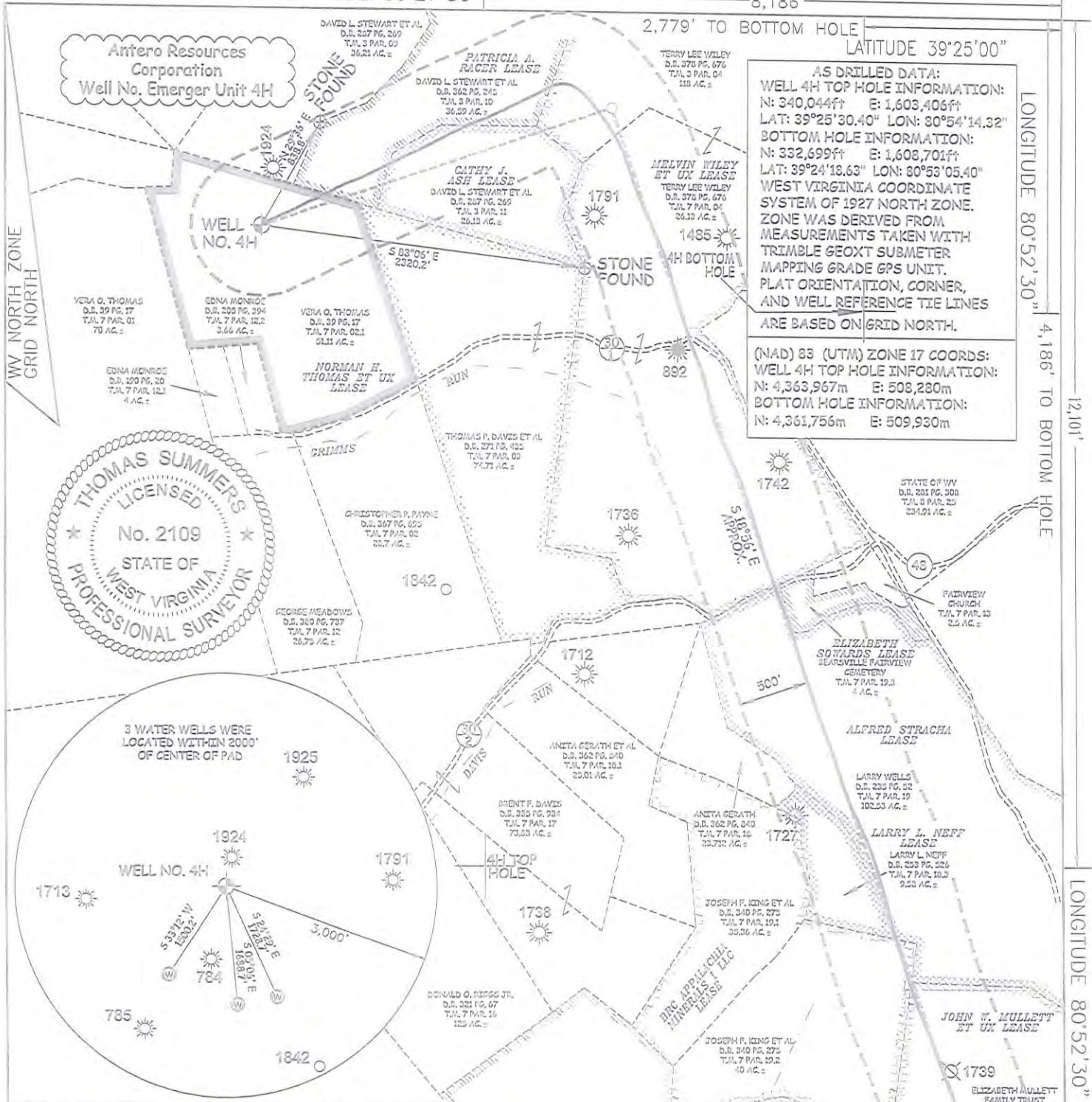
2,779' TO BOTTOM HOLE

LATITUDE 39°25'00"

LONGITUDE 80°52'30" 4,186' TO BOTTOM HOLE

12,101'

LONGITUDE 80°52'30"



AS DRILLED DATA:
WELL 4H TOP HOLE INFORMATION:
 N: 340,044ft E: 1,603,406ft
 LAT: 39°25'30.40" LON: 80°54'14.32"
BOTTOM HOLE INFORMATION:
 N: 332,699ft E: 1,608,701ft
 LAT: 39°24'18.63" LON: 80°53'05.40"
 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 4H TOP HOLE INFORMATION:
 N: 4,363,967m E: 508,230m
BOTTOM HOLE INFORMATION:
 N: 4,361,756m E: 509,930m



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

PAD LAYOUT NOT TO SCALE

MYSES UNIT 1H	10'
MYSES UNIT 2H	10'
MYSES UNIT 3H	10'
ANT UNIT 1H	10'
ANT UNIT 2H	10'
ANT UNIT 3H	10'
SAN JUAN UNIT 1H	10'
SAN JUAN UNIT 2H	10'
SAN JUAN UNIT 3H	10'
SAN JUAN UNIT 4H	10'
EMERGER UNIT 1H	10'
EMERGER UNIT 2H	10'
EMERGER UNIT 3H	10'
EMERGER UNIT 4H	10'

JOB # 16-020WA
 DRAWING # EMERGERHAD
 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

LEGEND
 - - - - - Surface Owner Boundary Lines +/-
 - - - - - Interior Surface Tracts +/-
 ○ - - - - Proposed Well Path
 ○ - - - - As Drilled Well Path

THOMAS SUMMERS P.S. 2109
 DATE 10/12/18
 OPERATOR'S WELL# EMERGER UNIT 4H

- NOTES:**
- 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 SHOWING HOLESON WAS PROVIDED BY ALLEGHENY SURVEYS, INC.
 - 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.

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 095 - 02356
 (IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT
 LOCATION: ELEVATION 1,148.1 AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK
 QUADRANGLE MIDDLEBOURNE 7.5' DISTRICT CENTERVILLE COUNTY TYLER
 SURFACE OWNER VERA O. THOMAS ACREAGE 51.11 ACRES +/-
 OIL & GAS ROYALTY OWNER NORMAN H. THOMAS ET UX; PATRICIA A. RACER; CATHY J. ASH; MELVIN WILEY ET UX; ALFRED STRACHA; BRC APPALACHIA MINERALS I LLC; JOHN W. MULLETT ET UX; CARL W. ASH LEASE ACREAGE 125 AC.±; 36.59 AC.±; 30 AC.±; 553.16 AC.±; 101.2 AC.±; 79.74 AC.±; 45 AC.±; 362.8 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 PLUG & ABANDON ___ CLEAN OUT & REPLUG ___
 TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,593' TVD 15,912' MD
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNKOOP ST. DENVER, CO 80202 ADDRESS 5400 D BIG TYLER ROAD CHARLESTON, WV 25313