

Reviewed

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

Handwritten: 5/9/18

API 47 - 017 - 06479 County Doddridge District Grant
Quad West Union 7.5' Pad Name Melody Pad Field/Pool Name -----
Farm name Melody Brown, et al Well Number Kreitler Unit 1H
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 4356584m Easting 520757m
Landing Point of Curve Northing 4356629.26m Easting 520585.98m
Bottom Hole Northing 4358365m Easting 519902m

Elevation (ft) 1135' 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 Office of Oil and Gas
Mud Type(s) and Additive(s) Air - Foam & 4% KCL
Mud - Polymer

RECEIVED
APR 24 2018
WV Department of Environmental Protection

Date permit issued 3/28/2014 Date drilling commenced 4/13/2016 Date drilling ceased 7/15/2016
Date completion activities began 10/7/2017 Date completion activities ceased 11/23/2017
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 31', 45', 46' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 865', 1391', 1509' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 1821' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by: _____

API 47-017 - 06479 Farm name Melody Brown, et al Well number Kreitler Unit 1H

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"	65'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	581'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2572'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	13578'	New	23#, P-110	N/A	Y
Tubing		2-3/8"			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	? sx	15.6	1.18		0'	8 Hrs.
Surface	Class A	702 sx	15.6	1.19	835	0'	8 Hrs.
Coal							
Intermediate 1	Class A	940 sx	15.6	1.18	1109	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1132 sx (Lead) 1653 sx (Tail)	11.73 (Lead), 15.08 (Tail)	1.44 (Lead), 1.87 (Tail)	4721	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 13578' MD, 6872' TVD (BHL), 6889' (Deepest Point Drilled) Loggers TD (ft) 13578' MD

Deepest formation penetrated Marcellus Plug back to (ft) RECEIVED

Plug back procedure N/A Office of Oil and Gas

APR 24 2018

Kick off depth (ft) 6281'

WV Department of Environmental Protection

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 47-017-06479 Farm Name Melody Brown et al Well Number Kreitler Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	10/7/2017	13282	13449	60	Marcellus
2	10/7/2017	13083	13250	60	Marcellus
3	10/7/2017	12885	13052	60	Marcellus
4	10/8/2017	12686	12854	60	Marcellus
5	10/8/2017	12488	12655	60	Marcellus
6	10/8/2017	12289	12457	60	Marcellus
7	10/8/2017	12091	12258	60	Marcellus
8	10/9/2017	11892	12060	60	Marcellus
9	10/9/2017	11694	11861	60	Marcellus
10	10/9/2017	11495	11663	60	Marcellus
11	10/9/2017	11297	11464	60	Marcellus
12	10/9/2017	11099	11266	60	Marcellus
13	10/10/2017	10900	11067	60	Marcellus
14	10/10/2017	10702	10869	60	Marcellus
15	10/10/2017	10503	10671	60	Marcellus
16	10/10/2017	10305	10472	60	Marcellus
17	10/10/2017	10106	10274	60	Marcellus
18	10/11/2017	9908	10075	60	Marcellus
19	10/11/2017	9709	9877	60	Marcellus
20	10/11/2017	9511	9678	60	Marcellus
21	10/12/2017	9313	9480	60	Marcellus
22	10/12/2017	9114	9281	60	Marcellus
23	10/12/2017	8916	9083	60	Marcellus
24	10/12/2017	8717	8885	60	Marcellus
25	10/12/2017	8519	8686	60	Marcellus
26	10/13/2017	8320	8488	60	Marcellus
27	10/13/2017	8122	8289	60	Marcellus
28	10/13/2017	7923	8091	60	Marcellus
29	10/13/2017	7725	7892	60	Marcellus
30	10/13/2017	7526	7694	60	Marcellus
31	10/13/2017	7328	7495	60	Marcellus
32	10/14/2017	7130	7297	60	Marcellus

RECEIVED
Office of Oil and Gas

APR 24 2018

WV Department of
Environmental Protection

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	10/7/2017	78.9512	7256.944	5194	4338	413220	8553	N/A
2	10/7/2017	77.0332	7718.37	5978	4163	414260	8504	N/A
3	10/7/2017	71.2239	7413.07	5926	4423	413770	8497	N/A
4	10/8/2017	74.5687	7356.842	5639	4726	414770	8435	N/A
5	10/8/2017	76.5284	7534.706	5645	4011	415820	8487	N/A
6	10/8/2017	76.1401	7274.727	6002	4304	414330	8466	N/A
7	10/8/2017	75.7826	7406.035	6251	4134	413780	8318	N/A
8	10/9/2017	74.7135	7443.438	6148	4256	414130	8305	N/A
9	10/9/2017	79.5476	7803.149	6219	4113	413780	8415	N/A
10	10/9/2017	74.6	7367	6238	5147	414360	9226	N/A
11	10/9/2017	72.9639	7378.269	6009	4267	413840	8310.929	N/A
12	10/9/2017	74.9314	7476.222	6188	4794	414670	8278.548	N/A
13	10/10/2017	71.5861	7323.799	6513	4087	415190	8324.31	N/A
14	10/10/2017	75.4047	7428.365	6092	4016	415200	8309	N/A
15	10/10/2017	76.5263	7413.691	6130	3986	414080	8306	N/A
16	10/10/2017	79.6262	7864.005	6374	4625	414410	8188.905	N/A
17	10/10/2017	75.9906	7815.512	6012	4813	413970	8162.5	N/A
18	10/11/2017	75.4993	7441.029	6611	3912	414420	8336.524	N/A
19	10/11/2017	76.7602	7518.526	6082	3802	415200	8273	N/A
20	10/11/2017	78.7259	7941.515	6394	4362	414440	8166.286	N/A
21	10/12/2017	79.1925	8073.425	5931	4214	413980	8152.881	N/A
22	10/12/2017	80.0619	7423.629	6031	3911	414980	8261.286	N/A
23	10/12/2017	80	7473	6085	4049	414680	8292	N/A
24	10/12/2017	79.0109	8096.495	6115	4687	414460	8166	N/A
25	10/12/2017	13.6862	5003.32	5926	4524	414010	8142.262	N/A
26	10/13/2017	78.7492	7874.191	6082	4412	414420	8109.857	N/A
27	10/13/2017	79.3225	7659.042	5855	3934	414650	8157.119	N/A
28	10/13/2017	78.3607	7611.441	5874	4127	414680	8175	N/A
29	10/13/2017	78.3964	7805.005	5912	4527	413980	8165	N/A
30	10/13/2017	77.1315	8364.17	5843	4405	414400	8068.214	N/A
31	10/13/2017	73.7987	8277.945	6042	4496	413870	8013.833	N/A
32	10/14/2017	74.9169	8306.455	5887	3800	413800	7970.143	N/A
	AVG=	74.7	7,567	6,038	4,293	13,259,550	265,536	TOTAL

RECEIVED
Office of Oil and Gas
APR 24 2018
WV Department of
Environmental Protection

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	45'	N/A	N/A	N/A
Fresh Water	36'	N/A	N/A	N/A
Fresh Water	46'	N/A	N/A	N/A
Fresh Water	31'	N/A	N/A	N/A
Silt	0	100	0	81
Sandstone	est. 100	300	est. 81	281
Siltstone (tr coal)	est. 300	420	est. 281	401
Silty Sandstone	est. 420	600	est. 401	581
Sandy siltstone	est. 600	780	est. 581	761
Limestone	est. 780	800	est. 761	781
Sandy siltstone	est. 800	880	est. 781	861
Limey Siltstone	est. 880	980	est. 861	961
Sandy shale	est. 980	1,300	est. 961	1,281
Sandstone	est. 1300	1,420	est. 1281	1,401
Sandy shale	est. 1420	1,580	est. 1401	1,561
Silty Sandstone (tr coal)	est. 1580	1,780	est. 1561	1,761
Sandstone	est. 1780	1,840	est. 1761	1,821
Coal	est. 1840	2,020	est. 1821	2,001
Limey Siltstone	est. 2020	2,082	est. 2001	2,085
Big Lime	2,082	2,631	2,085	2,634
Gantz Sand	2,631	2,763	2,634	2,766
Fifty Foot Sandstone	2,763	2,848	2,766	2,851
Gordon	2,848	3,166	2,851	3,169
Fifth Sandstone	3,166	3,179	3,169	3,182
Bayard	3,179	3,979	3,182	3,986
Speechley	3,979	4,199	3,986	4,209
Baltown	4,199	4,694	4,209	4,715
Bradford	4,694	5,154	4,715	5,186
Benson	5,154	5,438	5,186	5,476
Alexander	5,438	5,589	5,476	5,630
Elk	5,589	6,106	5,630	6,161
Rhinstreet	6,106	6,457	6,161	6,506
Sycamore	6,463	6,639	6,506	6,710
Middlesex	6,639	6,770	6,710	6,906
Burkett	6,770	6,800	6,906	6,964
Tully	6,800	6,851	6,964	7,091
Marcellus	6,851	NA	7,091	NA

*Please note Antero determines formation tops based on well 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.

RECEIVED
Office of Oil and Gas
APR 24 2018
Department of
Environmental Protection

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	10/7/2017
Job End Date:	10/14/2017
State:	West Virginia
County:	Doddridge
API Number:	47-017-06479-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Kreitler 1H
Latitude:	39.35837778
Longitude:	-80.75923611
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,889
Total Base Water Volume (gal):	11,448,689
Total Base Non Water Volume:	0

WV Department of Environmental Protection

APR 24 2018

RECEIVED
Office of Oil and Gas



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	87.63662	
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	12.17006	
HCL Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.40000	0.11362	
			Hydrogen Chloride	7647-01-0	17.50000	0.02642	
WFRA-405	U.S. Well Services, LLC	Friction Reducer	2-Propenoic acid, polymer with 2 propenamide	9003-06-9	30.00000	0.01702	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01370	
LGC-15	U.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.00673	
			Petroleum Distillates	64742-47-8	60.00000	0.00638	
			Suspending agent (solid)	14808-60-7	3.00000	0.00103	
			Surfactant	68439-51-0	3.00000	0.00040	

Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent					
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	20.00000	0.00407	
			Deionized Water	7732-18-5	28.00000	0.00233	
SI-1200s	U.S. Well Services, LLC	Scale Inhibitor					
			Proprietary Scale Inhibitor	Proprietary	10.00000	0.00133	
AP One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00019	
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene glycol	107-21-1	40.00000	0.00004	
			Cinnamaldehyde	104-55-2	20.00000	0.00002	
			Formic acid	64-18-6	20.00000	0.00002	
			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)

RECEIVED
 Office of Oil and Gas
 APR 24 2018
 WV Department of
 Environmental Protection

LATITUDE 39°22'30"

2,613'

202' TO BOTTOM HOLE

LONGITUDE 80°45'00"

LONGITUDE 80°45'00"

6,055'

LONGITUDE 80°45'00"

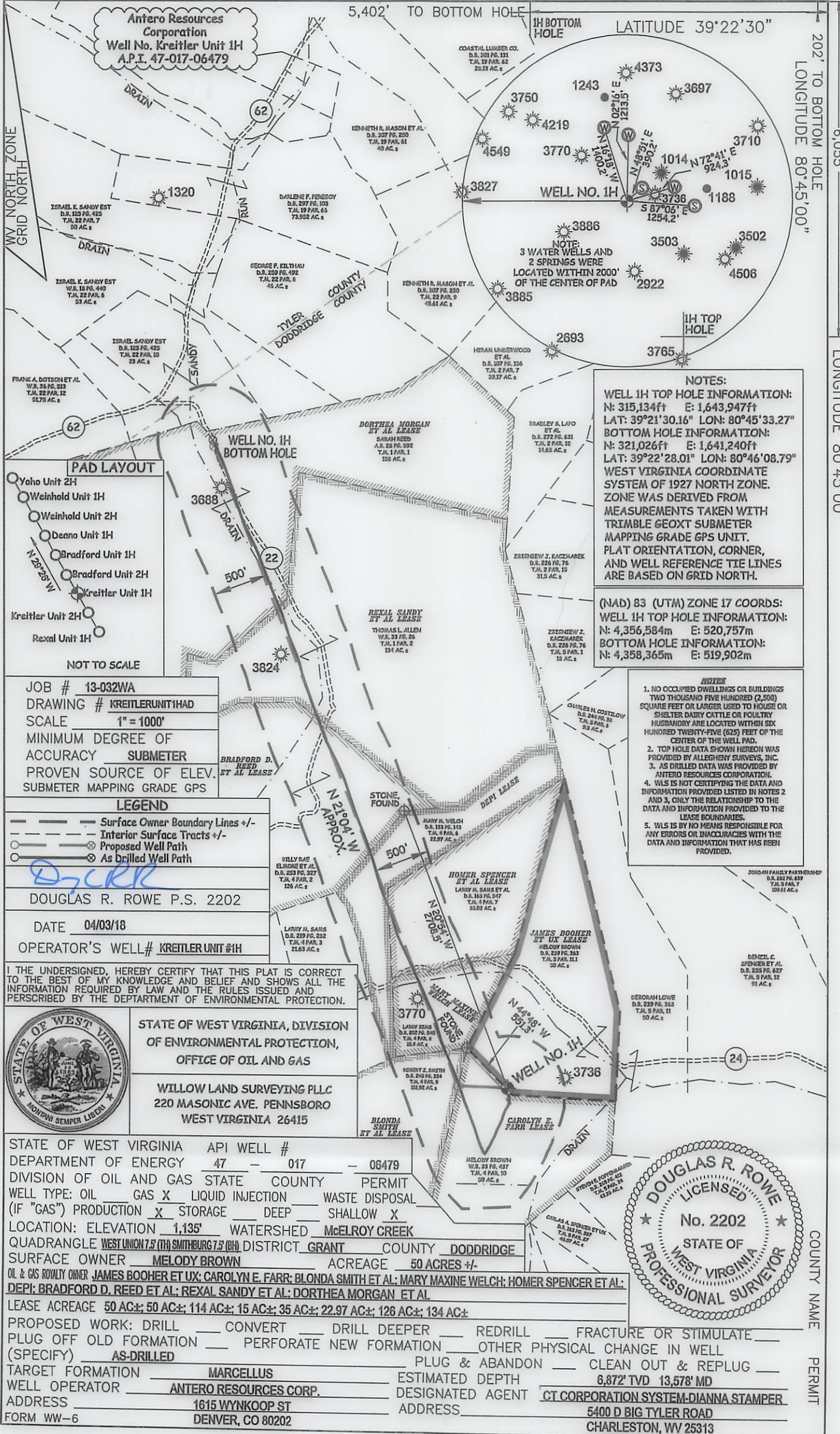
LONGITUDE 80°45'00"

LONGITUDE 80°45'00"

LONGITUDE 80°45'00"

LONGITUDE 80°45'00"

Antero Resources Corporation
Well No. Kreidler Unit 1H
A.P.I. 47-017-06479



NOTES:

WELL 1H TOP HOLE INFORMATION:
N: 315,134ft E: 1,643,947ft
LAT: 39°21'30.16" LON: 80°45'33.27"

BOTTOM HOLE INFORMATION:
N: 321,026ft E: 1,641,240ft
LAT: 39°22'28.01" LON: 80°46'08.79"

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 1H TOP HOLE INFORMATION:
N: 4,356,584m E: 520,757m

BOTTOM HOLE INFORMATION:
N: 4,358,365m E: 519,902m

- 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 ALLEGHENY SURVEYS, INC.
 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.

JOB # 13-032WA
DRAWING # KREITLERUNIT1HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND

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

DOUGLAS R. ROWE P.S. 2202
DATE 04/03/18
OPERATOR'S WELL# KREITLER UNIT #1H

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

STATE OF WEST VIRGINIA API WELL # 47 - 017 - 06479
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS STATE COUNTY PERMIT
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION 1,135' WATERSHED McELROY CREEK
QUADRANGLE WEST UNION 7.5 (TH) SMITHBURG 7.5 (BH) DISTRICT GRANT COUNTY DODDRIDGE
SURFACE OWNER MELODY BROWN ACREAGE 50 ACRES +/-
OIL & GAS ROYALTY OWNER JAMES BOOHER ET UX; CAROLYN E. FARR; BLONDA SMITH ET AL.; MARY MAXINE WELCH; HOMER SPENCER ET AL.;
DEPI: BRADFORD D. REED ET AL.; REXAL SANDY ET AL.; DORTHEA MORGAN ET AL

LEASE ACREAGE 50 AC±; 50 AC±; 114 AC±; 15 AC±; 35 AC±; 22.97 AC±; 126 AC±; 134 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 6,872' TVD 13,578' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM-DIANNA STAMPER
ADDRESS 1615 WYNKOOP ST ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313



COUNTY NAME

PERMIT

LATITUDE 39°22'30" 2,613'

202' TO BOTTOM HOLE

6,055'

LONGITUDE 80°45'00"

LONGITUDE 80°45'00"

COUNTY NAME

PERMIT

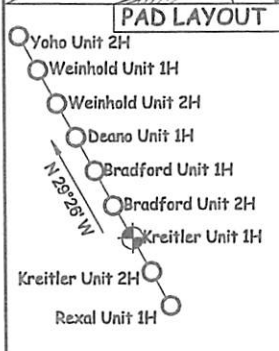
Antero Resources Corporation
Well No. Kreitler Unit 1H
A.P.I. 47-017-06479

5,402' TO BOTTOM HOLE

LATITUDE 39°22'30"

LONGITUDE 80°45'00"

WY NORTH ZONE
GRID NORTH



NOTES:
WELL 1H TOP HOLE INFORMATION:
N: 315,134ft E: 1,643,947ft
LAT: 39°21'30.16" LON: 80°45'33.27"
BOTTOM HOLE INFORMATION:
N: 321,026ft E: 1,641,240ft
LAT: 39°22'28.01" LON: 80°46'08.79"
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 1H TOP HOLE INFORMATION:
N: 4,356,584m E: 520,757m
BOTTOM HOLE INFORMATION:
N: 4,358,365m E: 519,902m

- 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 ALLEGHENY SURVEYS, INC.
- 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.

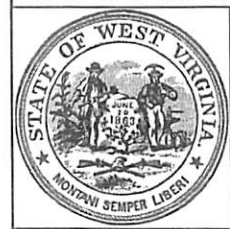
JOB # 13-032WA
DRAWING # KREITLERUNIT1HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

DOUGLAS R. ROWE P.S. 2202

DATE 04/03/18
OPERATOR'S WELL# KREITLER UNIT #1H

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

STATE OF WEST VIRGINIA API WELL # 47 - 017 - 06479
DEPARTMENT OF ENERGY
DIVISION OF OIL AND GAS STATE COUNTY PERMIT
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION 1,135' WATERSHED McELROY CREEK
QUADRANGLE WEST UNION 7.5 (TH) SMITHBURG 7.5 (OH) DISTRICT GRANT COUNTY DODDRIDGE
SURFACE OWNER MELODY BROWN ACREAGE 50 ACRES +/-
OIL & GAS ROYALTY OWNER JAMES BOOHER ET UX; CAROLYN E. FARR; BLONDA SMITH ET AL; MARY MAXINE WELCH; HOMER SPENCER ET AL;
DEPI; BRADFORD D. REED ET AL; REXAL SANDY ET AL; DORTHEA MORGAN ET AL

LEASE ACREAGE 50 AC±; 50 AC±; 114 AC±; 15 AC±; 35 AC±; 22.97 AC±; 126 AC±; 134 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 6,872' TVD 13,578' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT CT CORPORATION SYSTEM-DIANNA STAMPER
ADDRESS 1615 WYNKOOP ST ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

