

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

API 47 - 095 - 02453 County Tyler District Meade  
Quad Middlebourne 7.5' Pad Name Neat Pad Field/Pool Name -----  
Farm name Roger R. Weese Well Number Crown 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 4363549m Easting 505368m  
Landing Point of Curve Northing 4362136.81m Easting 505796.14m  
Bottom Hole Northing 4366733m Easting 503447m

Elevation (ft) 1005' 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 7/20/2017 Date drilling commenced 11/15/2017 Date drilling ceased 9/30/2018  
Date completion activities began 12/14/2018 Date completion activities ceased 3/28/2019  
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

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Freshwater depth(s) ft 100', 121', 166' Open mine(s) (Y/N) depths No  
Salt water depth(s) ft None Identified Void(s) encountered (Y/N) depths No  
Coal depth(s) ft 1441' Cavern(s) encountered (Y/N) depths No  
Is coal being mined in area (Y/N) No

Reviewed

Reviewed by:  
JCB  
6/24/2019

API 47-095 - 02453 Farm name Roger R. Weese Well number Crown 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"	105'	New	94#, H-40	N/A	Y
Surface	17-1/2"	13-3/8"	367'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2616'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	17619'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6501'		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	204 sx	15.6	1.18	120	0'	8 Hrs.
Surface	Class A	320 sx	15.6	1.18	826	0'	8 Hrs.
Coal							
Intermediate 1	Class A	885 sx	15.6	1.18	1181	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	675 sx (Lead) 1735 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.53 (Lead), 1.83 (Tail)		-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 18745' MD, 6240' TVD (BHL), 6391' (Deepest Point Drilled) Loggers TD (ft) 18745' 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 \_\_\_\_\_

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WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

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



API 47- 095 - 02453 Farm name Roger R. Weese Well number Crown Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	6284' (TOP) TVD	6584' (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 8039 mcfpd Oil 106 bpd NGL -- bpd Water 8 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 <sub>2</sub> 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 Allied Horizontal Wireline Services  
Address 381 Colonial Manor Road City North Huntington State PA Zip 15642

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 JUN 14 2019  
Signature  Title Permitting Agent Date 6/10/2019

API 47-095-02453 Farm Name Roger R. Weese Well Number Crown Unit 1H

**EXHIBIT 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	3/1/2018	15600	15766	60	Marcellus
2	3/2/2018	15404	15570	60	Marcellus
3	3/2/2018	15207	15373	60	Marcellus
4	3/3/2018	15011	15177	60	Marcellus
5	3/3/2018	14814	14980	60	Marcellus
6	3/4/2018	14618	14784	60	Marcellus
7	3/5/2018	14421	14587	60	Marcellus
8	3/5/2018	14225	14391	60	Marcellus
9	3/6/2018	14029	14194	60	Marcellus
10	3/6/2018	13832	13998	60	Marcellus
11	3/7/2018	13636	13801	60	Marcellus
12	3/7/2018	13439	13605	60	Marcellus
13	3/8/2018	13243	13408	60	Marcellus
14	3/8/2018	13046	13212	60	Marcellus
15	3/9/2018	12850	13015	60	Marcellus
16	3/10/2018	12653	12819	60	Marcellus
17	3/10/2018	12457	12622	60	Marcellus
18	3/11/2018	12260	12426	60	Marcellus
19	3/11/2018	12064	12229	60	Marcellus
20	3/12/2018	11867	12033	60	Marcellus
21	3/12/2018	11671	11836	60	Marcellus
22	3/13/2018	11474	11640	60	Marcellus
23	3/14/2018	11278	11443	60	Marcellus
24	3/14/2018	11081	11247	60	Marcellus
25	3/15/2018	10885	11050	60	Marcellus
26	3/15/2018	10688	10854	60	Marcellus
27	3/15/2018	10492	10657	60	Marcellus
28	3/16/2018	10295	10461	60	Marcellus
29	3/17/2018	10099	10264	60	Marcellus
30	3/17/2018	9902	10068	60	Marcellus
31	3/18/2018	9706	9871	60	Marcellus
32	3/18/2018	9509	9675	60	Marcellus
33	3/19/2018	9313	9478	60	Marcellus
34	3/20/2018	9116	9282	60	Marcellus
35	3/21/2018	8920	9085	60	Marcellus
36	3/21/2018	8723	8889	60	Marcellus
37	3/22/2018	8527	8692	60	Marcellus
38	3/23/2018	8330	8496	60	Marcellus
39	3/23/2018	8134	8299	60	Marcellus
40	3/24/2018	7937	8103	60	Marcellus
41	3/24/2018	7741	7906	60	Marcellus
42	3/25/2018	7544	7710	60	Marcellus
43	3/25/2018	7348	7513	60	Marcellus
44	3/25/2018	7151	7317	60	Marcellus
45	3/26/2018	6955	7120	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	1/7/2019	67.42	8130	7113	4107	185110	4935	N/A
2	1/7/2019	74.6	8170	5881	3700	412740	8546.929	N/A
3	1/8/2019	74.66	8299	5622	4394	410700	8447.952	N/A
4	1/8/2019	67.53	8019	5673	4142	415270	12620	N/A
5	1/8/2019	72.3	8130	5571	3615	403740	8369.69	N/A
6	1/9/2019	74.92	8174	5493	3728	407560	8349.762	N/A
7	1/9/2019	73.15	8097	5587	3545	409320	8423.524	N/A
8	1/9/2019	76.84	8067	5605	3807	409620	8418.119	N/A
9	1/10/2019	72.31	8033	5558	3523	403880	8243.167	N/A
10	1/10/2019	78.17	8136	5548	3684	407300	8366.643	N/A
11	1/10/2019	75.25	8006	5667	3772	405580	8303.024	N/A
12	1/11/2019	79.32	8107	5209	3665	407840	8455.238	N/A
13	1/11/2019	68.04	8102	5644	3796	406160	9585.429	N/A
14	1/11/2019	76.95	8092	5531	3606	408340	8296.69	N/A
15	1/12/2019	80.44	8025	5887	3725	406320	8207.524	N/A
16	1/12/2019	77.76	8015	6003	3842	408960	8358.738	N/A
17	1/12/2019	78.6	7987	5776	3783	406320	8265.19	N/A
18	1/12/2019	77.52	8164	5881	3727	410880	8252.69	N/A
19	1/13/2019	78.72	7888	5924	3828	412560	8287.81	N/A
20	1/13/2019	77.36	7941	5841	3704	412680	8392.738	N/A
21	1/13/2019	76.9	7966	5850	3589	403140	8194.952	N/A
22	1/13/2019	76.51	7790	6180	3675	406200	8137.262	N/A
23	1/14/2019	79.83	7909	6003	3948	402140	8077.333	N/A
24	1/14/2019	77.2	7862	5618	4014	391060	7908.19	N/A
25	1/14/2019	78.03	8004	5805	3801	405600	8110.357	N/A
26	1/15/2019	77.94	7959	5924	4068	424020	8306.333	N/A
27	1/15/2019	77.3	8162	5601	3853	401380	8119.262	N/A
28	1/15/2019	78.09	7955	5600	4335	410520	8168.881	N/A
29	1/15/2019	71.42	7441	5347	3748	408880	8173.81	N/A
30	1/16/2019	78.56	7745	5578	4176	413800	8105.095	N/A
31	1/16/2019	79.9	7761	5427	4847	409220	8097.548	N/A
32	1/17/2019	76.98	7677	5802	3937	404180	8075.69	N/A
33	1/17/2019	78.04	7639	5463	3652	410820	7996.429	N/A
34	1/17/2019	74.74	7371	5451	4051	403800	8047.976	N/A
35	1/17/2019	78.57	7589	5520	3742	412120	8103.143	N/A
36	1/18/2019	78.06	7960	5695	3771	406500	9357.333	N/A
37	1/18/2019	78.11	7313	5624	4086	409520	7921.643	N/A
38	1/18/2019	76.72	7379	5577	3987	405100	7896.714	N/A
39	1/19/2019	78.6	7675	5606	3901	409020	8086.81	N/A
40	1/19/2019	76.95	7549	5524	4294	407340	8214.714	N/A
41	1/19/2019	68.49	7561	5262	4307	414460	9491.048	N/A
42	1/19/2019	78.45	7473	5946	5295	403980	8030.381	N/A
43	1/20/2019	77.15	7251	5340	3762	407100	7883.643	N/A
44	1/20/2019	79.79	6979	5447	3909	407620	7904.81	N/A
45	1/20/2019	78.69	7203	5104	3609	408140	7912.857	N/A
46	1/21/2019	77.26	7217	5419	3556	399880	7916.071	N/A
47	1/21/2019	76.71	7339	5688	3453	408360	8019.143	N/A
48	1/22/2019	78.68	6997	5050	3525	403060	8202.119	N/A
49	1/22/2019	75.35	7262	5075	3715	396420	7832.833	N/A
50	1/22/2019	79.05	7014	6088	3747	400380	7900.619	N/A
51	1/22/2019	78.11	7109	5742	3956	401120	8228.262	N/A
52	1/23/2019	77.94	6981	5909	3964	405420	7898.381	N/A
53	1/23/2019	74.99	6648	5934	3631	403460	7883	N/A
54	1/23/2019	78.9	6781	6028	3782	407220	7980.31	N/A
55	1/24/2019	80.46	6796	6318	3902	404280	7958.238	N/A
56	1/24/2019	78.94	6568	5853	3685	400700	7574.548	N/A
		76.3	7,839	5,674	3,912	18,136,540	373,448	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	0	190	0	190
Sandy siltstone	190	290	190	290
Sandstone	290	600	290	600
Silty Sandstone	600	870	600	870
limey siltstone	870	945	870	945
silty sandstone, tr. coal	945	1,095	945	1,095
silty sandstone	1,095	1,490	1,095	1,490
silty shale	1,490	1,620	1,490	1,620
sandstone, tr coal	1,620	1,630	1,620	1,630
silty sandstone	1,630	1,670	1,630	1,670
sandstone	1,670	1,745	1,670	1,745
sandy shale	1,745	1,770	1,745	1,770
shaly sand	1,770	1,860	1,770	1,871
Big Lime	1,875	2,622	1,886	2,640
Fifty Foot Sandstone	2,622	2,730	2,640	2,749
Gordon	2,730	3,061	2,749	3,083
Fifth Sandstone	3,061	3,119	3,083	3,142
Bayard	3,119	3,892	3,142	3,922
Speechley	3,892	4,196	3,922	4,230
Balltown	4,196	4,565	4,230	4,603
Bradford	4,565	4,940	4,603	4,985
Benson	4,940	5,185	4,985	5,231
Alexander	5,185	6,178	5,231	6,309
Sycamore	6,031	6,154	6,114	6,285
Middlesex	6,154	6,246	6,285	6,468
Burkett	6,246	6,269	6,468	6,534
Tully	6,269	6,284	6,534	6,584
Marcellus	6,284	NA	6,584	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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# Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/7/2019
Job End Date:	1/24/2019
State:	West Virginia
County:	Tyler
API Number:	47-095-02453-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Crown Unit 1H
Latitude:	39.42158300
Longitude:	-80.93763600
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,791
Total Base Water Volume (gal):	19,355,347
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	87.23619	Density = 8.330
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.37485	

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EXCELERATE PS-2	Halliburton	Friction Reducer								
							Listed Below			
MC B-8614	Halliburton	Biocide								
							Listed Below			
SAND- PREMIUM WHITE-30/50	Halliburton	Proppant								
							Listed Below			
HYDROCHLORI C ACID	Halliburton	Solvent								
							Listed Below			
SAND-COMMON WHITE - 100 MESH	Halliburton	Proppant								
							Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent								
							Listed Below			
SAND- PREMIUM WHITE-40/70	Halliburton	Proppant								
							Listed Below			
FDP-S1296-17	Halliburton	Corrosion Inhibitor								
							Listed Below			

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LATITUDE 39°27'30"

5,924'

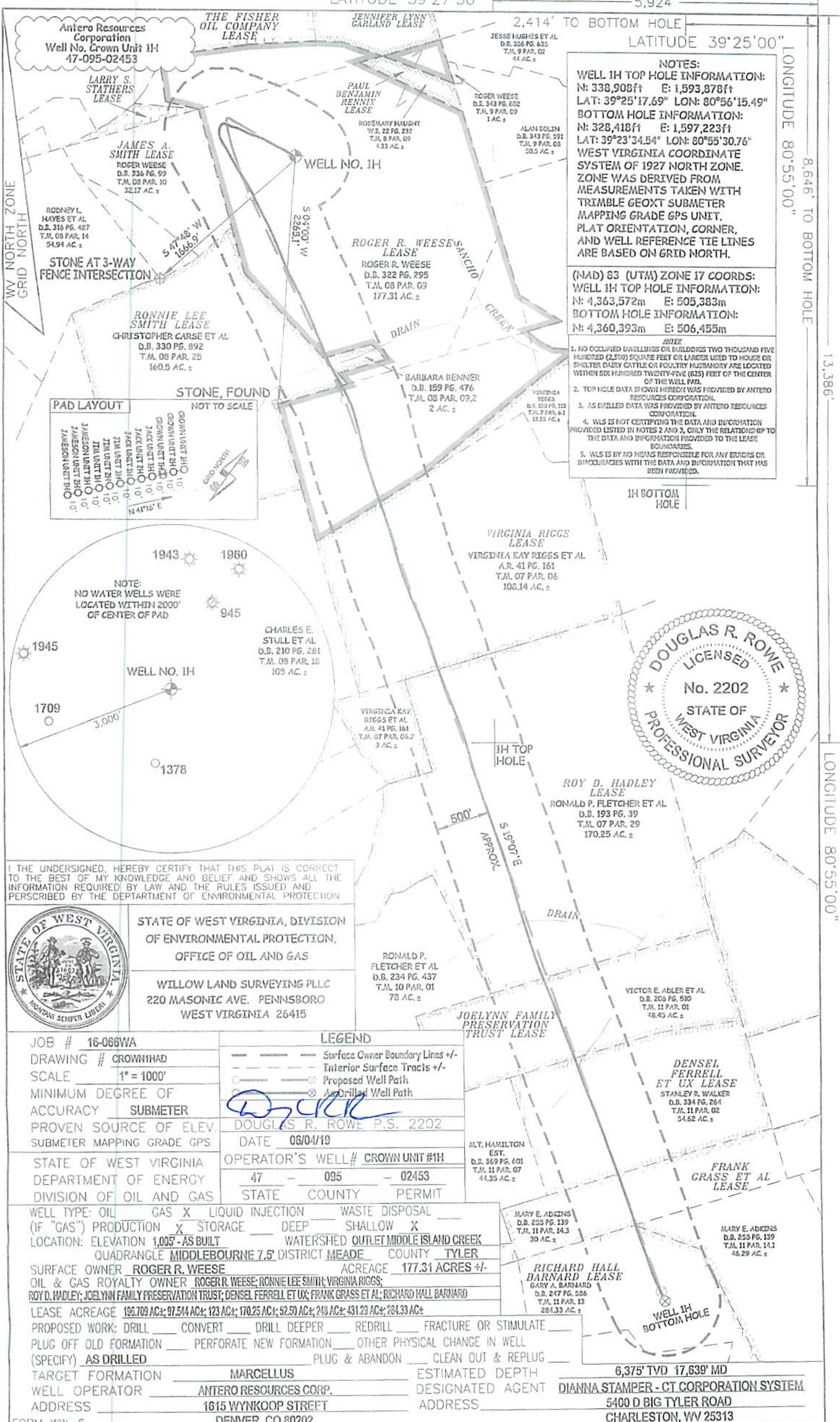
LATITUDE 39°25'00"

LONGITUDE 80°55'00"

8,646' TO BOTTOM HOLE

13,386'

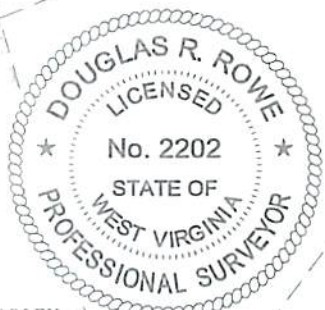
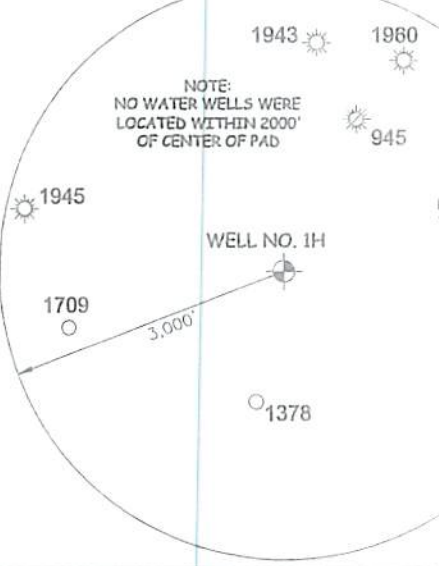
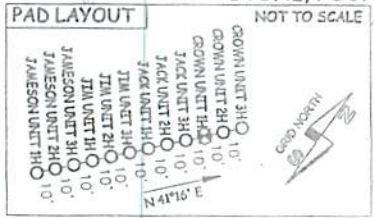
LONGITUDE 80°55'00"



**NOTES:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 338,908ft E: 1,593,878ft  
 LAT: 39°25'17.69" LON: 80°56'15.49"  
**BOTTOM HOLE INFORMATION:**  
 N: 328,418ft E: 1,597,223ft  
 LAT: 39°23'34.54" LON: 80°55'30.76"  
 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 1H TOP HOLE INFORMATION:**  
 N: 4,363,572m E: 505,383m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,360,393m E: 506,455m

**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 RESIDUARY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.  
 2. TOP HOLE DATA SHOWS 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.



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

JOB # 16-066WA  
 DRAWING # CROWN1HAD  
 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 +/-  
 O - - - - - Proposed Well Path  
 O - - - - - As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202  
 DATE 06/04/19  
 OPERATOR'S WELL# CROWN UNIT #1H  
 47 - 095 - 02453  
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL  
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X  
 LOCATION: ELEVATION 1,005' AS BUILT WATERSHED OUTLET MIDDLE ISLAND CREEK  
 QUADRANGLE MIDDLEBOURNE 7.5' DISTRICT MEADE COUNTY TYLER  
 SURFACE OWNER ROGER R. WEESE ACREAGE 177.31 ACRES +/-  
 OIL & GAS ROYALTY OWNER ROGER R. WEESE; RONNIE LEE SMITH; VIRGINIA RIGGS;  
 ROY D. HADLEY; JOEL YNN FAMILY PRESERVATION TRUST; DENSEL FERRELL ET UX; FRANK GRASS ET AL; RICHARD HALL BARNARD  
 LEASE ACREAGE 196.709 AC±; 97.544 AC±; 123 AC±; 170.25 AC±; 52.50 AC±; 248 AC±; 431.23 AC±; 284.33 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 6,375' TVD 17,639' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313