

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

WV Department of
Environmental Protection

API 47-095-02284 County Tyler District Centerville
Quad Shirley 7.5' Pad Name Edna Monroe Pad Field/Pool Name ---
Farm name Edna Monroe Well Number Seckman 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 4363711m Easting 510914m
Landing Point of Curve Northing 4363857.741m Easting 511110.924m
Bottom Hole Northing 4366308m Easting 510237m

Elevation (ft) 1044' 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 08/07/2015 Date drilling commenced 09/13/2016 Date drilling ceased 12/14/2016
Date completion activities began 05/11/2017 Date completion activities ceased 09/06/2017
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 337' 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 None Identified Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed

Reviewed by:

JEB

03/02/2018

API 47-095 - 02284

Farm name Edna Monroe

Well number Seckman Unit 1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade w/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	24"	20"	93'	New	94#, H-40	N/A	Y
Surface	17- 1/2"	13- 3/8"	515'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2643'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"	5-1/2"	15612'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6737'		4.6#, 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	204 sx	15.6	1.18	241	0	8 Hrs.
Surface	Class A	640 sx	15.6	1.19	762	0	8 Hrs.
Coal							
Intermediate 1	Class A	1032 sx	15.6	1.18	1218	0	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	793 sx (Lead), 1255 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.87 (Tail)	3489	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15612' MD, 6503' TVD (BHL), 6509' TVD (Deepest point drilled)

Loggers TD (ft) 15596' MD

Deepest formation penetrated Marcellus

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 5960'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Bead Unit 2H API# 47-095-02362). Please reference the wireline logs submitted with Form WR-35 for the Bead Unit 2H. A Cement Bond Log has been included with this submittal.

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 _____

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

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API 47- 095 - 02284

Farm name Edna Monroe

Well number Seckman Unit 1H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
* PLEASE SEE ATTACHED EXHIBIT 1					

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbbls)	Amount of Nitrogen/other (units)
* PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

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API 47- 095 - 02284 Farm name Edna Monroe Well number Seckman Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6482' (Top) TVD</u>	<u>6815' (Top) MD</u>
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 4100 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 12456 mcfpd Oil 111 bpd NGL - bpd Water 43 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	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	
	<u>0</u>		<u>0</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 Pro Oilfield Services LLC
Address 3141 Pulaski Rd City New Castle State PA Zip 16105

Cementing Company Allied Oil & Gas Services, LLC
Address 1036 East Main Street City Bridgeport State WV Zip 26330

Stimulating Company Halliburton
Address 121 Champion Way Suite 200 City Cannonsburg State PA Zip 15317

Please insert additional pages as applicable.

Completed by Samantha Klaas Telephone 303-357-6759
Signature [Signature] Title Permitting Agent Date 01/19/2018

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

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API 47-095-02284 Farm Name Edna Monroe Well Number Seckman Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	5/11/2017	15343	15411	48	Marcellus
2	7/21/2017	15145	15229	48	Marcellus
3	7/21/2017	14948	15031	48	Marcellus
4	7/22/2017	14750	14834	48	Marcellus
5	7/22/2017	14553	14636	48	Marcellus
6	7/22/2017	14355	14439	48	Marcellus
7	7/23/2017	14158	14241	48	Marcellus
8	7/23/2017	13960	14044	48	Marcellus
9	7/24/2017	13763	13846	48	Marcellus
10	7/24/2017	13565	13648	48	Marcellus
11	7/25/2017	13368	13451	48	Marcellus
12	7/25/2017	13170	13253	48	Marcellus
13	7/26/2017	12972	13056	48	Marcellus
14	7/26/2017	12775	12858	48	Marcellus
15	7/26/2017	12577	12661	48	Marcellus
16	7/26/2017	12380	12463	48	Marcellus
17	7/27/2017	12182	12266	48	Marcellus
18	7/27/2017	11985	12068	48	Marcellus
19	7/27/2017	11787	11871	48	Marcellus
20	7/28/2017	11590	11673	48	Marcellus
21	7/28/2017	11392	11475	48	Marcellus
22	7/28/2017	11195	11278	48	Marcellus
23	7/29/2017	10997	11080	48	Marcellus
24	7/29/2017	10799	10883	48	Marcellus
25	7/29/2017	10602	10685	48	Marcellus
26	7/30/2017	10404	10488	48	Marcellus
27	7/30/2017	10207	10290	48	Marcellus
28	7/30/2017	10009	10093	48	Marcellus
29	7/31/2017	9812	9895	48	Marcellus
30	7/31/2017	9614	9698	48	Marcellus
31	7/31/2017	9417	9500	48	Marcellus
32	8/1/2017	9219	9302	48	Marcellus
33	8/1/2017	9022	9105	48	Marcellus
34	8/2/2017	8824	8907	48	Marcellus
35	8/2/2017	8627	8710	48	Marcellus
36	8/2/2017	8429	8512	48	Marcellus
37	8/3/2017	8231	8315	48	Marcellus
38	8/3/2017	8034	8117	48	Marcellus
39	8/4/2017	7836	7920	48	Marcellus
40	8/4/2017	7639	7722	48	Marcellus
41	8/4/2017	7441	7525	48	Marcellus
42	8/5/2017	7244	7327	48	Marcellus
43	8/5/2017	7046	7129	48	Marcellus
44	8/5/2017	6849	6932	48	Marcellus

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API 47-095-02284 Farm Name Edna Monroe Well Number Seckman Unit 1H

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	7/20/2017	73.2	7481	8605	3752	151162	10230	N/A
2	7/21/2017	77.8	7520	5589	3637	173530	9551.9	N/A
3	7/21/2017	78.4	7609	5481	4051	151550	9639.3	N/A
4	7/22/2017	78.7	7721	5450	3852	156408	9268.5	N/A
5	7/22/2017	76.5	7283	5344	3773	177540	9420.9	N/A
6	7/22/2017	81.0	7483	5352	3866	151750	9301.6	N/A
7	7/23/2017	80.7	7465	5325	3708	170220	9205.7	N/A
8	7/23/2017	79.5	7426	5263	3810	147810	8930.4	N/A
9	7/24/2017	79.4	7645	5444	3714	172590	9418.3	N/A
10	7/24/2017	76.8	7700	5275	5105	147330	9954.7	N/A
11	7/25/2017	78.4	7110	5403	3970	166110	9091.3	N/A
12	7/25/2017	79.9	7124	5163	3860	163310	8979.2	N/A
13	7/26/2017	77.0	7186	5220	3665	145432	8672.8	N/A
14	7/26/2017	79.3	6925	5128	4377	166820	8931.9	N/A
15	7/26/2017	79.8	7068	5258	3663	148040	8497.4	N/A
16	7/26/2017	79.0	6959	5270	3580	163926	9615.1	N/A
17	7/27/2017	79.4	7080	5303	3570	145882	8514.5	N/A
18	7/27/2017	81.1	6803	5317	3744	167460	8740.4	N/A
19	7/27/2017	80.0	6869	5212	3775	143792	8737.2	N/A
20	7/28/2017	77.9	7490	5186	3726	169520	10669.9	N/A
21	7/28/2017	76.2	7374	5299	3417	142300	9668.5	N/A
22	7/28/2017	79.0	6967	5421	3997	165017	9018.2	N/A
23	7/29/2017	79.6	6668	5446	4153	144010	8389.3	N/A
24	7/29/2017	77.0	7209	5280	5374	167480	9516.3	N/A
25	7/29/2017	78.7	7226	5249	3874	167093	10327	N/A
26	7/30/2017	78.7	6872	5089	4516	150250	8239.4	N/A
27	7/30/2017	80.0	6832	5174	3819	165880	8855.6	N/A
28	7/30/2017	79.5	6443	5186	3612	149897	8537.6	N/A
29	7/31/2017	79.6	6759	5194	4009	168630	8820.8	N/A
30	7/31/2017	80.3	6500	5191	3784	152470	8541.1	N/A
31	7/31/2017	78.1	6318	5093	3794	147713	8373.1	N/A
32	8/1/2017	73.8	6900	5270	3769	152001	9852.9	N/A
33	8/1/2017	78.7	6848	5450	3561	143433	9085.9	N/A
34	8/2/2017	78.7	6514	5060	3794	16656	9138.3	N/A
35	8/2/2017	77.1	6747	5465	3652	150521	8706.3	N/A
36	8/2/2017	79.5	6453	6550	3596	168224	9667.2	N/A
37	8/3/2017	78.6	6617	5134	3892	147610	8556.9	N/A
38	8/3/2017	75.5	7096	5328	3725	162425	8486.8	N/A
39	8/4/2017	75.6	6657	5636	3699	141297	8564.7	N/A
40	8/4/2017	56.8	6445	5485	7005	151200	8261.1	N/A
41	8/4/2017	78.2	6502	5209	3579	171420	8956.8	N/A
42	8/5/2017	78.6	6393	5460	3446	166801	9302	N/A
43	8/5/2017	76.3	6152	5011	3689	173160	8836.4	N/A
44	8/5/2017	72.2	6071	5625	3564	167967	8784.9	N/A
	AVG=	77.7	6966	5407	3921	6963637	399858	TOTAL

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EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Fresh Water	337'	N/A	337'	N/A
Sandy Siltstone	0	225	0	225
Sandstone	225	325	225	325
Shale/Siltstone	325	605	325	605
Silty Limestone	605	805	605	805
Sandy Siltstone	805	1025	805	1025
Silty Shale	1025	1065	1025	1065
Sandstone	1065	1445	1065	1445
Sandy Shale	1445	1545	1445	1545
Shale/Sandstone	1545	1705	1545	1705
Sandstone/Siltstone	1705	1745	1705	1745
Sandstone	1745	1810	1745	1810
Sandy Shale	1810	1959	1810	1959
Big Lime	1974	2064	1974	2064
Big Injun	2064	2698	2064	2698
Gantz Sand	2698	2789	2698	2789
Fifty Foot Sandstone	2789	2908	2789	2909
Gordon	2908	3262	2909	3262
Fifth Sandstone	3262	3323	3262	3324
Bayard	3323	3552	3324	3552
Warren	3552	4055	3552	4057
Speechley	4055	4437	4057	4450
Baltown	4437	4798	4450	4835
Bradford	4798	5063	4835	5118
Benson	5063	5293	5118	5362
Alexander	5293	5500	5362	5582
Elk	5500	5830	5582	5931
Rhinestreet	5830	6174	5931	6301
Sycamore	6149	6318	6276	6486
Middlesex	6318	6418	6486	6649
Burkett	6418	6449	6649	6719
Tully	6449	6482	6719	6815
Marcellus	6482	NA	6815	NA

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03/02/2018

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/20/2017
Job End Date:	8/5/2017
State:	West Virginia
County:	Tyler
API Number:	47-095-02284-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Seckman 1H
Latitude:	39.42278000
Longitude:	-80.87337000
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,532
Total Base Water Volume (gal):	16,733,856
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	88.37491	Density = 8.330
Ingredients	Listed Above	Listed Above					
			Water	7732-18-5	100.00000	0.33353	

HAI-OS ACID INHIBITOR	Halliburton	Corrosion Inhibitor					
				Listed Below			
SP BREAKER	Halliburton	Breaker					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
SAND-PREMIUM WHITE-40/70	Halliburton	Proppant					
				Listed Below			
MC B-8614	Halliburton	Biocide					
				Listed Below			
HYDROCHLORIC ACID	Halliburton	Solvent					
				Listed Below			
SAND-COMMON WHITE - 100 MESH	Halliburton	Proppant					
				Listed Below			
SAND-PREMIUM WHITE-30/50	Halliburton	Proppant					
				Listed Below			

LP-70	Halliburton	Scale Inhibitor					
				Listed Below			
FR-76	Halliburton	Friction Reducer					
				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	11.24082	
			Hydrochloric acid	7647-01-0	15.00000	0.04202	
			Inorganic salt	Proprietary	30.00000	0.01860	
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.01860	
			Acrylamide acrylate copolymer	Proprietary	30.00000	0.01860	Denise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281-871-6226
			Guar gum	9000-30-0	100.00000	0.01812	
			Ethylene Glycol	107-21-1	60.00000	0.00859	
			Glutaraldehyde	111-30-8	30.00000	0.00274	
			Neutralized Polyacrylic Emulsion	Proprietary	10.00000	0.00143	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00046	
			Sodium persulfate	7775-27-1	100.00000	0.00032	
			Methanol	67-56-1	60.00000	0.00014	
			Ethanol	64-17-5	1.00000	0.00009	
			Ethoxylated alcohols	Proprietary	30.00000	0.00006	
			Fatty acids, tall oil	Proprietary	30.00000	0.00006	

			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30.00000	0.00006	
			Olefins	Proprietary	5.00000	0.00003	
			Propargyl alcohol	107-19-7	10.00000	0.00002	
			Phosphoric acid	7664-38-2	0.10000	0.00001	
			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)

WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
 (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
 STATE COUNTY PERMIT 095 47 02284
 COUNTY NAME PERMIT 02284
 SURFACE OWNER EDNA MONROE
 OIL & GAS ROYALTY OWNER CARL BAKER, FOREST E. LEASEBURG ET UX, RAYMOND Y. UNDERWOOD ET UX, LEASE ACREAGE 87 ACRES +/-
 VIRGINIA R. WOLFE, LARRY D. McMULLEN, CATHY JO ASH, REGINA M. BUCK
 126 AC +/- 34.5 AC +/- 315.25 AC +/- 465 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
 ESTIMATED DEPTH 6,503' TVD 15,612' MD
 DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
 ADDRESS 1615 WYNNKOP ST.
 ANTERO RESOURCES CORP.
 WELL OPERATOR

JOB # 14-028WA
 DRAWING # SECKMAN/HAD
 SCALE 1" = 2000'
 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
 OPERATOR'S WELL # SECKMAN UNIT #1H
 DATE 12/13/17
 THOMAS SUMMERS P.S. 2109

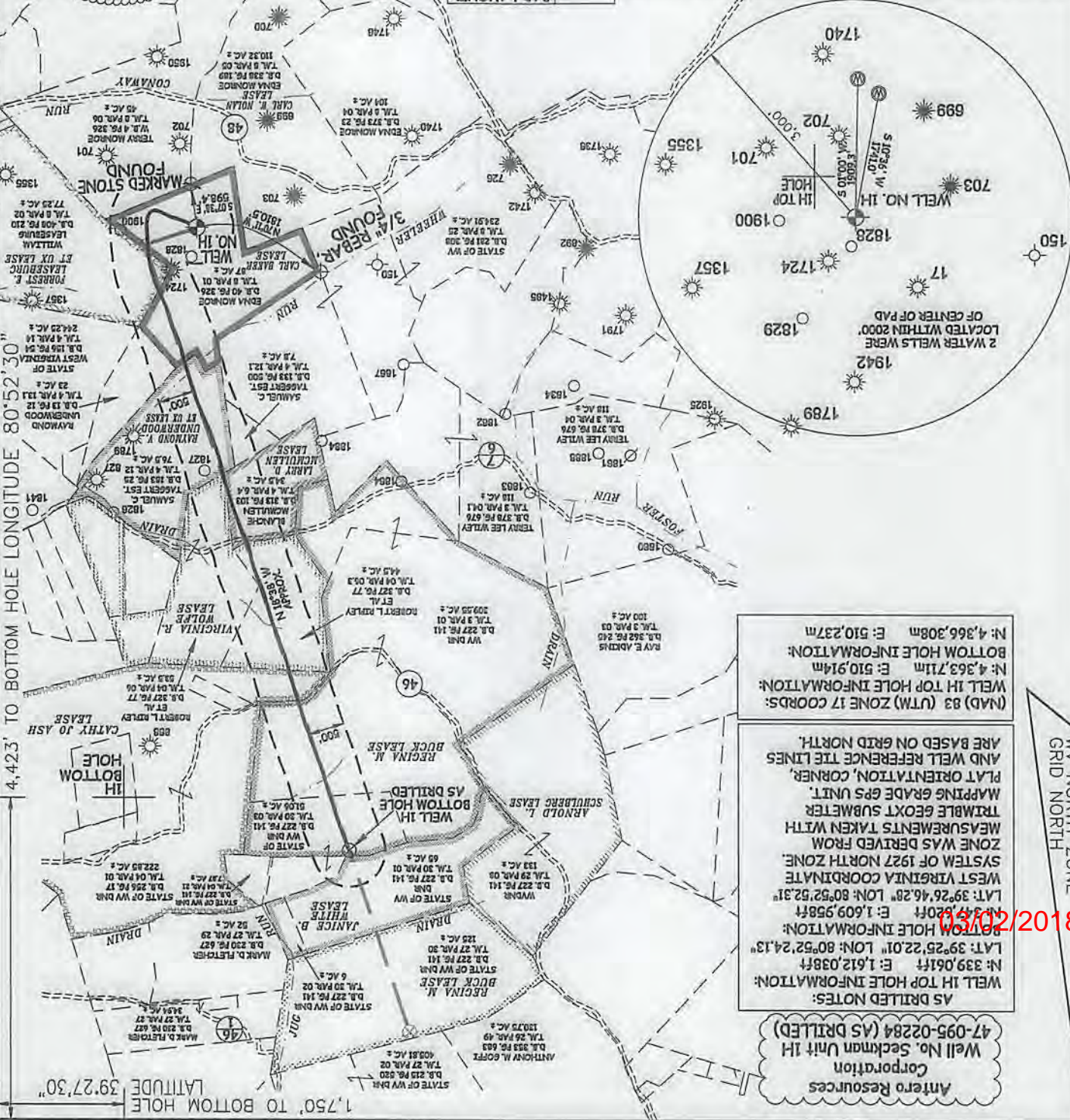
STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS
 220 MASONIC AVE. PENNSBORO
 WEST VIRGINIA 26415

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 PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

WILLOW LAND SURVEYING PLLC
 220 MASONIC AVE. PENNSBORO
 WEST VIRGINIA 26415

LEGEND
 Surface Owner Boundary Lines +/-
 Interior Surface Tracts +/-
 Found monument, as noted
 Proposed Well Path
 As Drilled Well Path

NOT TO SCALE
 GRID NORTH
 1790
1780
1770
1760
1750
1740
1730
1720
1710
1700
1690
1680
1670
1660
1650
1640
1630
1620
1610
1600
1590
1580
1570
1560
1550
1540
1530
1520
1510
1500



Antero Resources Corporation
 Well No. Section Unit 1H
 47-095-02284 (AS DRILLED)

AS DRILLED NOTES:
 WELL 1H TOP HOLE INFORMATION:
 N: 339,061ft E: 1,612,038ft
 LAT: 39°25'22.01" LON: 80°52'24.13"
 1607 E: 1,609,958ft
 LAT: 39°26'46.28" LON: 80°52'52.31"
 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: 4,363,711m E: 510,914m
 BOTTOM HOLE INFORMATION:
 N: 4,366,308m E: 510,237m

LATITUDE 39°27'30" LONGITUDE 80°50'00"