

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

API 47 - 095 - 02254 County Tyler District Centerville
Quad Middlebourne 7.5' Pad Name Estlack Pad Field/Pool Name ---
Farm name Edna Monroe Well Number Hare 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 4362778m Easting 510496m
Landing Point of Curve Northing 4362544.662m Easting 510717.467m
Bottom Hole Northing 4359639m Easting 511758m

Elevation (ft) 1142' 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 05/21/2015 Date drilling commenced 10/07/2015 Date drilling ceased 01/28/2016
Date completion activities began 08/02/2016 Date completion activities ceased 12/13/2016
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 46', 98' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 748', 1222' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 228', 1128', 1628' Cavern(s) encountered (Y/N) depths No

Is coal being mined in area (Y/N) No

APPROVED

NAME: Sen H
DATE: 9-19-17

Reviewed by: DMH
10/13/2017
RBDMS/AX 10/11/17

API 47-095 - 02254 Farm name Edna Monroe Well number Hare 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"	72'	New	94#, J-55	N/A	Y
Surface	17- 1/2"	13- 3/8"	400'	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"	5-1/2"	17529' *	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6775'		4.7#, N-80		
Packer type and depth set		N/A					

Comment Details *Please note this well was drilled to 17532', however casing was only ran to 17529'

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	123 sx	15.6	1.18	145	0	8 Hrs.
Surface	Class A	452 sx	15.6	1.18	533	0	8 Hrs.
Coal							
Intermediate 1	Class A	1017 sx	15.6	1.18	1200	0	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	915 sx (Lead), 1717 sx (Tail)	14.5 (Lead), 15.2 (Tail)	1.33 (Lead), 1.83 (Tail)	4359	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 17532' MD, 6665' TVD (BHL), 6669' TVD (Deepest point drilled) Loggers TD (ft) 17483' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5955'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Lucy Unit 1H API# 47-095-02276). Please reference the wireline logs submitted with Form WR-35 for the Lucy Unit 1H. 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 _____

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

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API 47- 095 - 02254 Farm name Edna Monroe Well number Hare 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**

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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 (bbls)	Amount of Nitrogen/other (units)

*** PLEASE SEE ATTACHED EXHIBIT 2**

Please insert additional pages as applicable.

API 47- 095 - 02254 Farm name Edna Monroe Well number Hare Unit 1H

PRODUCING FORMATION(S)	DEPTHS		
Marcellus	6568' (Top)	TVD	6839' (Top) MD

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 11611 mcfpd Oil 212 bpd NGL --- bpd Water 859 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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	0		0		
* PLEASE SEE ATTACHED EXHIBIT 3					

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Please insert additional pages as applicable.


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

Logging Company Allied Horizontal Wireline Services
Address 381 Colonial Manor Rd City North Huntingdon State PA Zip 15642

Cementing Company C&J Energy Services
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

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

Please insert additional pages as applicable.

Completed by Samantha Klaas Telephone 303-357-6759
Signature  Title Permitting Agent Date 08/18/2017

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

API 47-095-02254 Farm Name Edna Monroe Well Number Hare Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	8/2/2016	17266	17435	60	Marcellus
2	8/2/2016	17067	17235	60	Marcellus
3	8/3/2016	16867	17036	60	Marcellus
4	8/3/2016	16668	16836	60	Marcellus
5	8/4/2016	16468	16637	60	Marcellus
6	8/4/2016	16269	16437	60	Marcellus
7	8/5/2016	16069	16238	60	Marcellus
8	8/5/2016	15870	16038	60	Marcellus
9	8/6/2016	15670	15838	60	Marcellus
10	8/6/2016	15471	15639	60	Marcellus
11	8/7/2016	15271	15439	60	Marcellus
12	8/7/2016	15072	15240	60	Marcellus
13	8/8/2016	14872	15040	60	Marcellus
14	8/8/2016	14673	14841	60	Marcellus
15	8/9/2016	14473	14641	60	Marcellus
16	8/10/2016	14273	14442	60	Marcellus
17	8/10/2016	14074	14242	60	Marcellus
18	8/11/2016	13874	14043	60	Marcellus
19	8/12/2016	13675	13843	60	Marcellus
20	8/13/2016	13475	13644	60	Marcellus
21	8/14/2016	13276	13444	60	Marcellus
22	8/14/2016	13076	13245	60	Marcellus
23	8/15/2016	12877	13045	60	Marcellus
24	8/15/2016	12677	12846	60	Marcellus
25	8/16/2016	12478	12646	60	Marcellus
26	8/16/2016	12278	12446	60	Marcellus
27	8/17/2016	12079	12247	60	Marcellus
28	8/17/2016	11879	12047	60	Marcellus
29	8/18/2016	11680	11848	60	Marcellus
30	8/18/2016	11480	11648	60	Marcellus
31	8/19/2016	11281	11449	60	Marcellus
32	8/19/2016	11081	11249	60	Marcellus
33	8/20/2016	10881	11050	60	Marcellus
34	8/20/2016	10682	10850	60	Marcellus
35	8/20/2016	10482	10651	60	Marcellus
36	8/21/2016	10283	10451	60	Marcellus
37	8/21/2016	10083	10252	60	Marcellus
38	8/22/2016	9884	10052	60	Marcellus
39	8/22/2016	9684	9853	60	Marcellus
40	8/22/2016	9485	9653	60	Marcellus
41	8/23/2016	9285	9454	60	Marcellus
42	8/23/2016	9086	9254	60	Marcellus
43	8/24/2016	8886	9054	60	Marcellus
44	8/24/2016	8687	8855	60	Marcellus
45	8/24/2016	8487	8655	60	Marcellus
46	8/25/2016	8288	8456	60	Marcellus
47	8/25/2016	8088	8256	60	Marcellus
48	8/26/2016	7889	8057	60	Marcellus
49	8/26/2016	7689	7857	60	Marcellus
50	8/27/2016	7489	7658	60	Marcellus
51	8/27/2016	7290	7458	60	Marcellus
52	8/28/2016	7090	7259	60	Marcellus
53	8/28/2016	6891	7059	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	8/2/2016	58.1	7435	0	3667	305709	8658.1	N/A
2	8/2/2016	74.3	7657	6436	3780	305971	8013.9	N/A
3	8/3/2016	76.4	7588	5482	3188	305156	9204.0	N/A
4	8/3/2016	72.9	7382	6038	3691	306708	7980.7	N/A
5	8/4/2016	70.9	7357	5783	3058	305000	8022.4	N/A
6	8/4/2016	71.3	7562	5788	3731	303750	9474.2	N/A
7	8/5/2016	73.7	7235	5736	2980	305460	7720.0	N/A
8	8/5/2016	73.7	7079	5668	3193	305473	7724.9	N/A
9	8/6/2016	74.1	7088	5671	5324	305749	7564.6	N/A
10	8/6/2016	72.6	7161	5463	3396	304960	7919.9	N/A
11	8/7/2016	72.9	7160	5435	3709	306936	7852.5	N/A
12	8/7/2016	73.6	7303	5545	3166	303382	7914.1	N/A
13	8/8/2016	71.9	7240	5929	3518	306102	7731.5	N/A
14	8/8/2016	72.8	6928	5436	3344	307209	7826.1	N/A
15	8/9/2016	74.4	7159	6415	3536	305020	7772.3	N/A
16	8/10/2016	77.2	7364	5995	3542	305644	7843.0	N/A
17	8/10/2016	75.0	7028	5775	3144	305178	7884.6	N/A
18	8/11/2016	74.1	6981	5833	3035	306092	7787.5	N/A
19	8/12/2016	72.9	7000	6209	3070	305926	7749.8	N/A
20	8/13/2016	69.2	7113	5669	2915	306676	7788.4	N/A
21	8/14/2016	75.9	6789	5523	3253	304769	7656.5	N/A
22	8/14/2016	72.9	6537	5633	3320	304993	7758.0	N/A
23	8/15/2016	72.2	7300	6010	3787	304060	9631.4	N/A
24	8/15/2016	72.1	6933	5438	3346	304568	7821.3	N/A
25	8/16/2016	72.9	7073	6219	3000	304752	7792.7	N/A
26	8/16/2016	73.7	6697	5441	3120	303674	7718.9	N/A
27	8/17/2016	71.0	6963	6252	3432	309801	7924.4	N/A
28	8/17/2016	71.9	6855	5257	3169	304095	7654.8	N/A
29	8/18/2016	74.2	6711	5480	3149	306259	7683.7	N/A
30	8/18/2016	54.5	6700	5424	4826	195866	7567.8	N/A
31	8/19/2016	70.3	7381	5569	3876	303600	11358.6	N/A
32	8/19/2016	75.4	6912	5364	6019	294937	7523.0	N/A
33	8/20/2016	71.0	6481	5305	3426	306379	7670.8	N/A
34	8/20/2016	70.9	6387	5487	3278	305341	7662.6	N/A
35	8/20/2016	70.8	6688	5363	3144	305328	7584.0	N/A
36	8/21/2016	75.8	6469	5533	3590	306086	7649.0	N/A
37	8/21/2016	78.4	6984	5415	3590	304962	7793.8	N/A
38	8/22/2016	75.1	6660	5608	3185	305765	7469.4	N/A
39	8/22/2016	74.8	6515	5757	3514	305042	7633.6	N/A
40	8/22/2016	74.1	6340	5701	3370	305764	7482.4	N/A
41	8/23/2016	77.7	6863	5654	3168	306770	7645.2	N/A
42	8/23/2016	77.6	6938	5726	3360	306000	7981.3	N/A
43	8/24/2016	72.8	6516	5924	3202	306169	7603.3	N/A
44	8/24/2016	76.3	6208	5627	3611	303848	7451.4	N/A
45	8/24/2016	73.2	6167	5782	3239	307736	7457.3	N/A
46	8/25/2016	76.8	6608	5976	3578	305050	8076.3	N/A
47	8/25/2016	76.4	6365	5752	3257	304693	7431.8	N/A
48	8/26/2016	73.6	6383	5957	3276	305520	7513.7	N/A
49	8/26/2016	74.7	6377	5755	3302	306934	7406.2	N/A
50	8/27/2016	72.9	6772	5417	3338	302461	8280.5	N/A
51	8/27/2016	76.5	6622	5544	3215	305047	8894.9	N/A
52	8/28/2016	77.3	6525	5921	3506	307312	7624.1	N/A
53	8/28/2016	82.0	6285	5561	2850	306819	6090.0	N/A
	AVG=	73.4	6,883	5,598	3,458	16,072,501	418,925	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
Fresh Water	46'	N/A	46'	N/A
Fresh Water	98'	N/A	98'	N/A
Siltstone	0	228	0	228
Coal	228	248	228	248
Sandstone/Siltstone	248	908	248	908
Shale/Siltstone	908	1128	908	1128
Coal	1128	1148	1128	1148
Shale	1148	1348	1148	1348
Coal	1348	1368	1348	1368
Shale	1368	1448	1368	1448
Sandstone/Siltstone	1448	1628	1448	1628
Coal	1628	1648	1628	1648
Sandstone/Siltstone	1648	2043	1648	2045
Big Lime	2043	2151	2045	2153
Big Injun	2151	2708	2153	2710
Gantz Sand	2708	2798	2710	2800
Fifty Foot Sandstone	2798	2906	2800	2908
Gordon	2906	3216	2908	3218
Fifth Sandstone	3216	3290	3218	3292
Bayard	3290	3609	3292	3611
Warren	3609	4020	3611	4022
Speechley	4020	4736	4022	4738
Bradford	4736	5107	4738	5109
Benson	5107	5373	5109	5375
Alexander	5373	5550	5375	5552
Elk	5550	5903	5552	5905
Rhinestreet	5903	6229	5905	6264
Sycamore	6229	6400	6264	6499
Middlesex	6400	6506	6499	6681
Burkett	6506	6537	6681	6748
Tully	6537	6568	6748	6839
Marcellus	6568	NA	6839	NA

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	8/28/2016
Job End Date:	8/28/2016
State:	West Virginia
County:	Tyler
API Number:	47-095-02254-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Hare 1H
Latitude:	39.41437500
Longitude:	-80.87824444
Datum:	NAD27
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,649
Total Base Water Volume (gal):	18,388,492
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	90.26210	Density = 8.340
Ingredients	Listed Above	Listed Above					
	RECEIVED Office of Oil and Gas		Water	7732-18-5	100.00000	0.23033	

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SP BREAKER	Halliburton	Breaker					
				Listed Below			
HYDROCHLORIC ACID	Halliburton	Solvent					
				Listed Below			
MC B-8614	Halliburton	Biocide					
				Listed Below			
FR-76	Halliburton	Friction Reducer					
				Listed Below			
WG-36 GELLING AGENT	Halliburton	Gelling Agent					
				Listed Below			
SAND-COMMON WHITE-100 MESH, SSA-2, BULK (100003676)	Halliburton	Proppant					
				Listed Below			
SAND-PREMIUM WHITE-40/70, BULK	Halliburton	Proppant					
				Listed Below			
FDP-M1075-12	Halliburton	Scale Inhibitor					
				Listed Below			
	RECEIVED Office of Oil and Gas			Listed Below			

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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	9.45666	
			Hydrochloric acid	7647-01-0	15.00000	0.02604	
			Inorganic salt	Proprietary	30.00000	0.02040	
			Acrylamide acrylate copolymer	Proprietary	30.00000	0.02040	Denise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281-871-6226
			Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02040	
			Guar gum	9000-30-0	100.00000	0.01617	
			Ethylene Glycol	107-21-1	60.00000	0.00863	
			Glutaraldehyde	111-30-8	30.00000	0.00264	
			Telomer	Proprietary	10.00000	0.00144	
			Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl chlorides	68424-85-1	5.00000	0.00044	
			Sodium persulfate	7775-27-1	100.00000	0.00016	
			Sodium polyacrylate	9003-04-7	1.00000	0.00014	
			Methanol	67-56-1	60.00000	0.00009	
			Ethanol	64-17-5	1.00000	0.00009	
			Fatty acids, tall oil	Proprietary	30.00000	0.00004	
			Reaction product of acetophenone, formaldehyde, thiourea and oleic acid in dimethyl formamide	68527-49-1	30.00000	0.00004	
			Ethoxylated alcohols	Proprietary	30.00000	0.00004	
			Olefins	Proprietary	5.00000	0.00002	
			Propargyl alcohol	107-19-7	10.00000	0.00001	

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			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)

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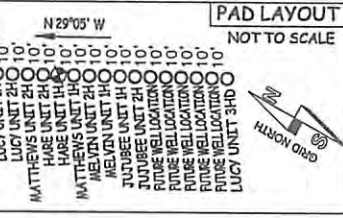
LATITUDE 39°25'00" -917'

LONGITUDE 80°52'30"

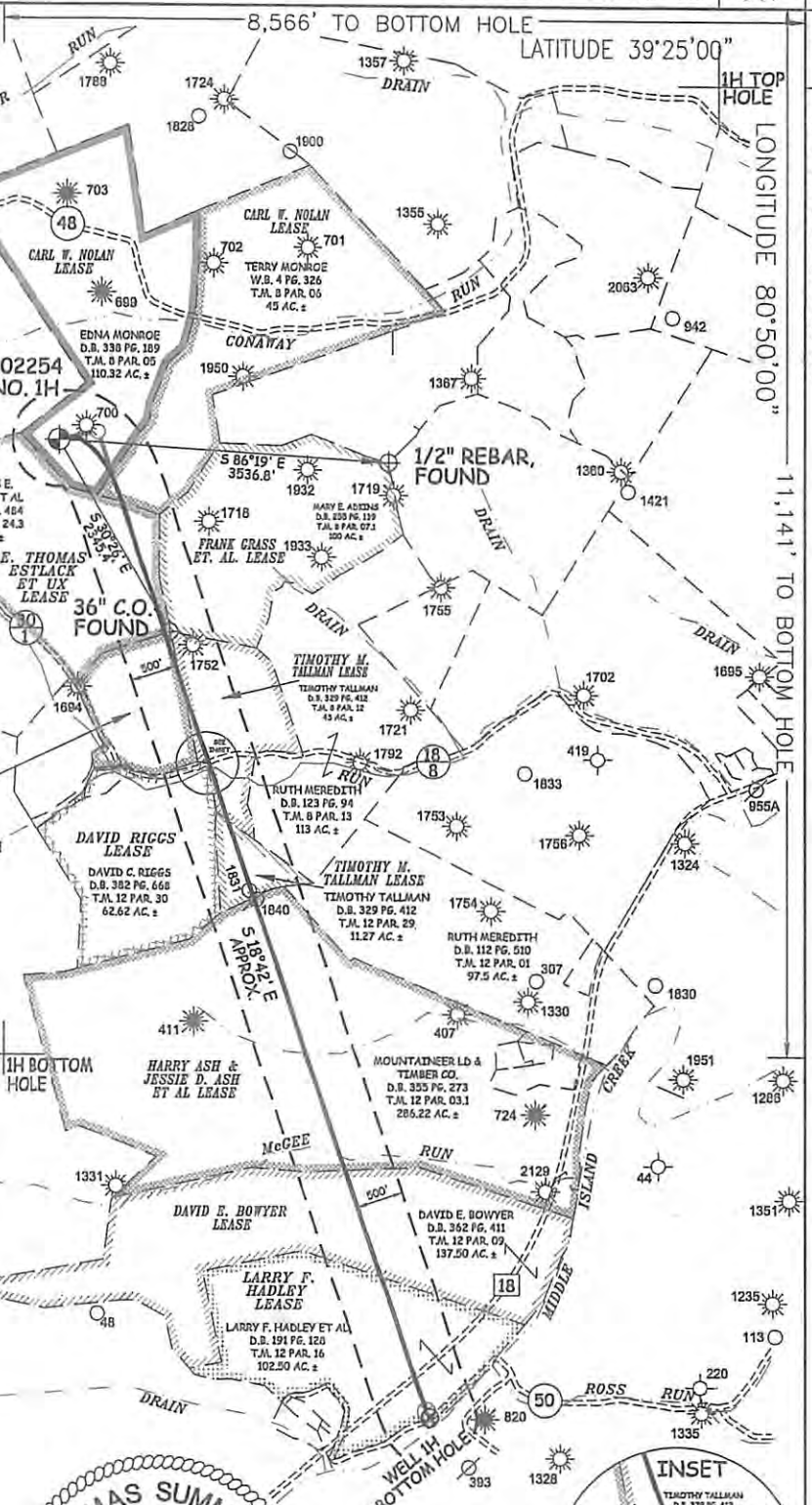
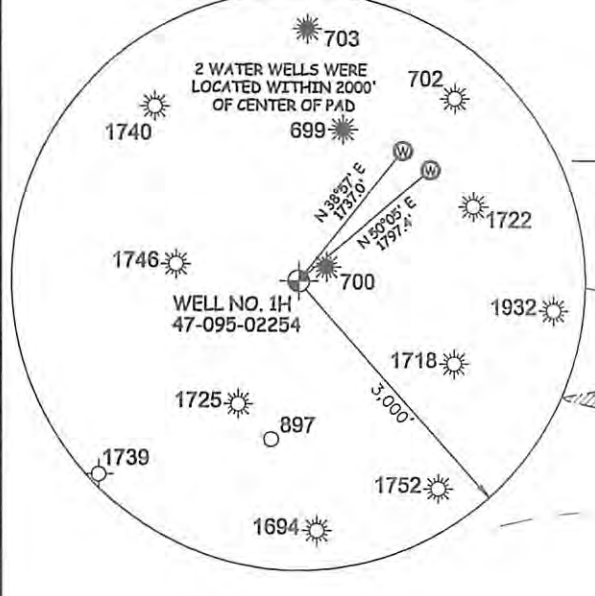
Antero Resources Corporation
Well No. Hare Unit 1H
47-095-02254 (AS DRILLED)

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 336,021ft E: 1,610,614ft
LAT: 39°24'51.76" LON: 80°52'41.68"
BOTTOM HOLE INFORMATION:
N: 325,653ft E: 1,614,583ft
LAT: 39°23'09.88" LON: 80°51'49.11"
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.

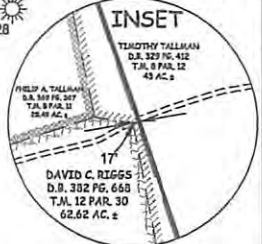
(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
N: 4,362,778m E: 510,496m
BOTTOM HOLE INFORMATION:
N: 4,359,639m E: 511,758m



WV NORTH ZONE GRID NORTH



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 # 15-009WA
DRAWING # HAREHADR
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

LEGEND
--- Surface Owner Boundary Lines +/-
--- Interior Surface Tracts +/-
⊕ Found monument, as noted
○ Proposed Well Path
○ As Drilled Well Path
THOMAS SUMMERS P.S. 2109
DATE 06/29/17
OPERATOR'S WELL# HARE UNIT #1H

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 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.

WELL TYPE: OIL ___ GAS X LIQUID INJECTION ___ WASTE DISPOSAL ___ 47 - 095 - 02254
(IF "GAS") PRODUCTION X STORAGE ___ DEEP ___ SHALLOW X STATE COUNTY PERMIT
LOCATION: ELEVATION 1,142' - AS-DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK 10/13/2017
QUADRANGLE MIDDLEBOURNE 7.5' (TH) SHIRLEY 7.5; (BH) DISTRICT CENTERVILLE COUNTY TYLER
SURFACE OWNER EDNA MONROE ACREAGE 110.32 ACRES +/-
OIL & GAS ROYALTY OWNER CARL W. NOLAN; CARL W. NOLAN; E. THOMAS ESTLACK ET UX; PHILLIP TALLMAN; TIMOTHY M. TALLMAN; LEASE ACREAGE 116 AC±; 120 AC±; 85.5 AC±; 28 AC±; 43 AC±; TIMOTHY M. TALLMAN; HARRY ASH & JESSIE D. ASH ET AL; DAVID E. BOWYER; LARRY F. HADLEY 11 AC±; 291 AC±; 138 AC±; 102.5 AC±
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___
PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION ___ OTHER PHYSICAL CHANGE IN WELL (SPECIFY) (X) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,665' TVD 17,532' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER - CT CORPORATION SYSTEM
ADDRESS 1615 WYNKOOP ST. ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

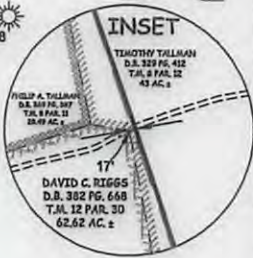
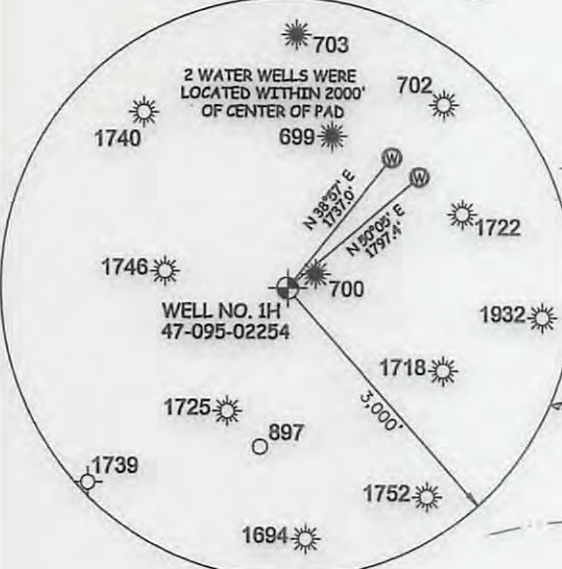
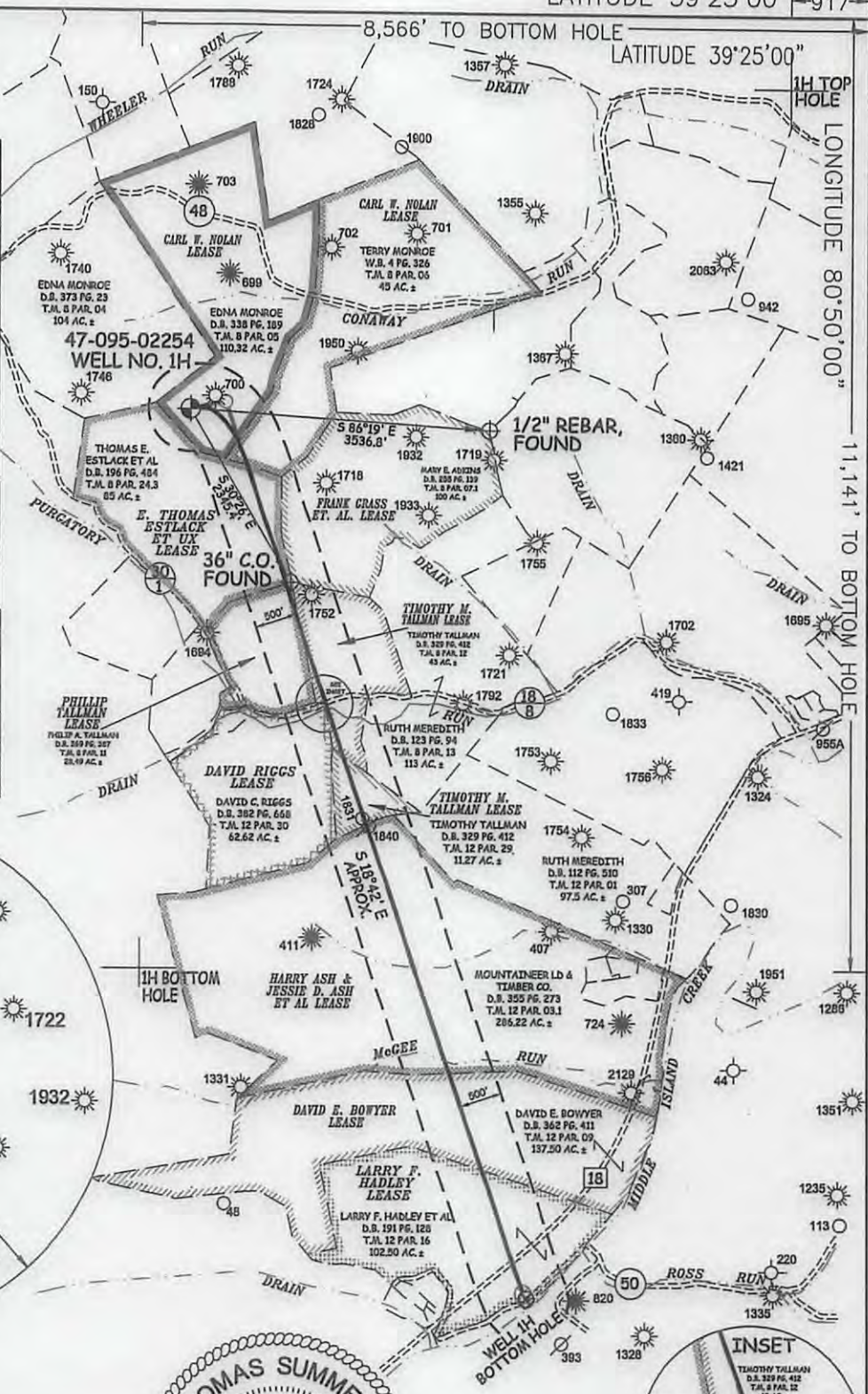
LATITUDE 39°25'00" -917-

LONGITUDE 80°52'30"

Antero Resources Corporation
Well No. Hare Unit 1H
47-095-02254 (AS DRILLED)

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 336,021ft E: 1,610,614ft
LAT: 39°24'51.76" LON: 80°52'41.68"
BOTTOM HOLE INFORMATION:
N: 325,653ft E: 1,614,583ft
LAT: 39°23'09.88" LON: 80°51'49.11"
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: 4,362,778m E: 510,496m
BOTTOM HOLE INFORMATION:
N: 4,359,639m E: 511,758m



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10/13/2017