

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

API 47 - 017 - 06842 County Doddridge District West Union
 Quad West Union 7.5' Pad Name Strickling Pad Field/Pool Name -----
 Farm name John Paul Strickling, et al Well Number Taunus Unit 3H
 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 4353672.88m Easting 518658.105m
 Landing Point of Curve Northing 4353957.59m Easting 518826.63m
 Bottom Hole Northing 4356543.441m Easting 517778.654m

Elevation (ft) 1065' 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 7/13/2017 Date drilling commenced 9/5/2017 Date drilling ceased 5/22/2018
 Date completion activities began 8/7/2018 Date completion activities ceased 10/3/2018
 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 None Identified 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 by:

WR-35
Rev. 8/23/13

API 47-017 - 06842 Farm name John Paul Strickling, et al Well number Taunus Unit 3H

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"	362'	New	54.5#, J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2575'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	16597'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6884'		4.7#, P-110		
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	284 sx	15.6	1.18	335	0'	8 Hrs.
Surface	Class A	318 sx	15.6	1.2	382	0'	8 Hrs.
Coal							
Intermediate 1	Class A	895 sx	15.6	1.18	1056	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	750 sx (Lead) 1537 sx (Tail)	14(Lead), 15.2 (Tail)	1.45 (Lead), 1.83 (Tail)	3900	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 16596' MD, 6714' TVD (BHL), 6744' (Deepest Point Drilled) Loggers TD (ft) 16596' MD

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

Plug back procedure N/A

Kick off depth (ft) 6291'

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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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 (bbls)	Amount of Nitrogen/other (units)
*PLEASE SEE ATTACHED EXHIBIT 2								

Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6680' (TOP) TVD	6950' (TOP) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3600 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 9629.35 mcfpd Oil 115.36 bpd NGL --- bpd Water 473.57 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	

***PLEASE SEE ATTACHED EXHIBIT 3**

Please insert additional pages as applicable.

Drilling Contractor Frontier Drilling LLC
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Nine Energy Service
Address 125 Museum Rd City Washington State PA Zip 15301

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

Stimulating Company US Well Services
Address 533 Industrial Park Road City Lane Jew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Karin Cox Telephone 303-357-6820
Signature  Title Permitting Agent Date 2/1/2019

API 47-017-06842 Farm Name John Paul Strickling, et al Well Number Taunus Unit 3H					
EXHIBIT 1					
Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	8/7/2018	16437	16492	48	Marcellus
2	8/7/2018	16236.108	16405.518	48	Marcellus
3	8/8/2018	16035.216	16204.626	48	Marcellus
4	8/8/2018	15834.324	16003.734	48	Marcellus
5	8/8/2018	15633.432	15802.842	48	Marcellus
6	8/9/2018	15432.54	15601.95	48	Marcellus
7	8/9/2018	15231.648	15401.058	48	Marcellus
8	8/10/2018	15030.756	15200.166	48	Marcellus
9	8/10/2018	14829.864	14999.274	48	Marcellus
10	8/11/2018	14628.972	14798.382	48	Marcellus
11	8/11/2018	14428.08	14597.49	48	Marcellus
12	8/11/2018	14227.188	14396.598	48	Marcellus
13	8/12/2018	14026.296	14195.706	48	Marcellus
14	8/12/2018	13825.404	13994.814	48	Marcellus
15	8/13/2018	13624.512	13793.922	48	Marcellus
16	8/13/2018	13423.62	13593.03	48	Marcellus
17	8/14/2018	13222.728	13392.138	48	Marcellus
18	8/14/2018	13021.836	13191.246	48	Marcellus
19	8/15/2018	12820.944	12990.354	48	Marcellus
20	8/15/2018	12620.052	12789.462	48	Marcellus
21	8/16/2018	12419.16	12588.57	48	Marcellus
22	8/16/2018	12218.268	12387.678	48	Marcellus
23	8/17/2018	12017.376	12186.786	48	Marcellus
24	8/17/2018	11816.484	11985.894	48	Marcellus
25	8/18/2018	11615.592	11785.002	48	Marcellus
26	8/18/2018	11414.7	11584.11	48	Marcellus
27	8/19/2018	11213.808	11383.218	48	Marcellus
28	8/19/2018	11012.916	11182.326	48	Marcellus
29	8/19/2018	10812.024	10981.434	48	Marcellus
30	8/20/2018	10611.132	10780.542	48	Marcellus
31	8/20/2018	10410.24	10579.65	48	Marcellus
32	8/21/2018	10209.348	10378.758	48	Marcellus
33	8/21/2018	10008.456	10177.866	48	Marcellus
34	8/22/2018	9807.564	9976.974	48	Marcellus
35	8/22/2018	9606.672	9776.082	48	Marcellus
36	8/23/2018	9405.78	9575.19	48	Marcellus
37	8/23/2018	9204.888	9374.298	48	Marcellus
38	8/23/2018	9003.996	9173.406	48	Marcellus
39	8/24/2018	8803.104	8972.514	48	Marcellus
40	8/24/2018	8602.212	8771.622	48	Marcellus
41	8/24/2018	8401.32	8570.73	48	Marcellus
42	8/25/2018	8200.428	8369.838	48	Marcellus
43	8/25/2018	7999.536	8168.946	48	Marcellus
44	8/26/2018	7798.644	7968.054	48	Marcellus
45	8/26/2018	7597.752	7767.162	48	Marcellus
46	8/26/2018	7396.86	7566.27	48	Marcellus
47	8/27/2018	7195.968	7365.378	48	Marcellus
48	8/27/2018	6995.076	7164.486	48	Marcellus

API 47-017-06842 Farm Name John Paul Strickling, et al Well Number Taurus Unit 3H

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	8/7/2018	73.8572	7627.563	6076	4158	264600	7945	N/A
2	8/7/2018	71.1499	7591.891	5525	5208	403200	8161	N/A
3	8/8/2018	79.2935	7616.156	5710	5055	403400	8123	N/A
4	8/8/2018	78.734	7898.725	5566	4051	403200	7987	N/A
5	8/8/2018	76.9924	8016.662	5427	4754	401600	7965	N/A
6	8/9/2018	77.3057	7989.571	5480	5040	403200	7901	N/A
7	8/9/2018	78.7568	7870.026	6020	3644	402400	7951	N/A
8	8/10/2018	79.2	8241.2	5903	4088	404580	7913	N/A
9	8/10/2018	78.4298	7950.297	5641	3393	403300	7894	N/A
10	8/11/2018	80.207	8079.479	5840	3956	403300	7830	N/A
11	8/11/2018	78.9	7790.2	5643	4077	402460	7780	N/A
12	8/11/2018	79.2687	8005.881	5742	4309	403000	7889	N/A
13	8/12/2018	79.8	8018.3	5729	4036	404210	7792	N/A
14	8/12/2018	79.072	8093.826	5613	5231	402600	7760	N/A
15	8/13/2018	79.7344	8227.881	6126	5260	392800	7778	N/A
16	8/13/2018	77.2	7941.7	5838	4675	403770	9034	N/A
17	8/14/2018	78.914	8062.155	6206	5426	403200	7807	N/A
18	8/14/2018	69.7513	7143.573	5746	3867	400750	8385	N/A
19	8/15/2018	78.7	7885.9	6063	4069	403010	7856	N/A
20	8/15/2018	78.7635	7788.315	5328	4303	403650	7833	N/A
21	8/16/2018	78.2	7834.8	5420	3889	402240	7713	N/A
22	8/16/2018	78.0769	7905.911	5612	3992	401900	7850	N/A
23	8/17/2018	78.2	7983.2	6171	4063	406550	7684	N/A
24	8/17/2018	78.05	7901.841	5666	3713	402850	7843	N/A
25	8/18/2018	78.9585	7925.058	6023	3412	401870	7789	N/A
26	8/18/2018	78.8	7902.7	5704	4281	403510	7755	N/A
27	8/19/2018	77.3528	7701.181	6483	3582	403200	7798	N/A
28	8/19/2018	78.7	7589.3	5768	4099	403470	7721	N/A
29	8/19/2018	79.8399	7476.258	6306	3874	402550	7730	N/A
30	8/20/2018	78.8114	7518.488	6073	3768	403600	7640	N/A
31	8/20/2018	78.8461	7649.252	5598	3881	403050	7724	N/A
32	8/21/2018	79.0711	7525.837	6017	3920	401300	7667	N/A
33	8/21/2018	79.4417	7578.923	5866	3690	402150	7748	N/A
34	8/22/2018	78.9581	7549.833	5672	3566	404700	7656	N/A
35	8/22/2018	79.4838	7277.145	5934	5034	401000	7605	N/A
36	8/23/2018	76.3	7919	5718	4477	384800	9542	N/A
37	8/23/2018	78.7969	7813.62	6231	3724	402600	7625	N/A
38	8/23/2018	79.2325	7872.036	6197	3851	403500	7661	N/A
39	8/24/2018	78.8498	7986.047	6453	3748	402800	7716	N/A
40	8/24/2018	78.5907	7694.811	6312	3347	403600	7565	N/A
41	8/24/2018	77.2655	8057.332	5989	5156	383070	8101	N/A
42	8/25/2018	79.9231	7718.911	6342	3502	406400	8220	N/A
43	8/25/2018	79.6629	7493.955	6037	0	423070	7969	N/A
44	8/26/2018	79.4391	7535.445	5924	3390	420100	7889	N/A
45	8/26/2018	73.8803	7651.953	6296	3713	410900	8870	N/A
46	8/26/2018	78.6647	7145.911	6049	3449	401750	7613	N/A
47	8/27/2018	77.6468	7216.324	6565	3936	403100	7600	N/A
48	8/27/2018	80.2	6885.207	5716	3699	401430	7429	N/A
	AVG=	78	7,753	5,903	4,028	19,203,290	379,307	TOTAL

API 47-017-06842 Farm Name John Paul Strickling, et al Well Number Taunus Unit 3H				
EXHIBIT 3				
LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD)
	From Surface	From Surface	From Surface	From Surface
Sandstone	0	187	0	187
Sandstone tr coal	est 187	267	est 187	267
Sandy shale	est 267	807	est 267	807
Calcareous Shale	est 807	1,187	est 807	1,187
Shale tr coal	est 1187	1,207	est 1187	1,207
Sandy Shale	est 1207	1,527	est 1207	1,527
Sandstone	est 1527	1,567	est 1527	1,567
Silty shale	est 1567	1,667	est 1567	1,667
Sandstone	est 1667	1,787	est 1667	1,787
Sandy shale	est 1787	1,956	est 1787	1,966
Big Lime	1,956	2,535	1,966	2,545
Fifty Foot Sandstone	2,535	2,736	2,545	2,759
Gordon	2,736	2,955	2,759	2,980
Fifth Sandstone	2,955	3,008	2,980	3,033
Bayard	3,008	3,825	3,033	3,856
Speechley	3,825	4,096	3,856	4,129
Balltown	4,096	4,614	4,129	4,651
Bradford	4,614	5,022	4,651	5,063
Benson	5,022	5,302	5,063	5,345
Alexander	5,302	6,307	5,345	6,374
Sycamore	6,307	6,474	6,374	6,575
Middlesex	6,474	6,605	6,575	6,772
Burkett	6,605	6,633	6,772	6,831
Tully	6,633	6,680	6,831	6,950
Marcellus	6,680	N/A	6,950	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	8/7/2018
Job End Date	8/27/2018
State	West Virginia
County	Doddridge
API Number	47-017-06842-00-00
Operator Name	Antero Resources Corporation
Well Name and Number	Taurus 3H
Latitude	39.33219200
Longitude	-80.78368600
Datum	NAD83
Federal Well	NO
Indian Well	NO
True Vertical Depth	7,105
Total Base Water Volume (gal)	16,451,872
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
Water	Antero Resources	Carrier/Base Fluid	Water	7732-18-5	100.00000	87.54346	
Sand	U.S. Well Services, LLC	Proppant					
HCl Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk Acid	Crystalline Silica, quartz	14808-60-7	100.00000	12.25231	
			Water	7732-18-5	87.40000	0.12777	
			Hydrogen Chloride	7647-01-0	17.50000	0.02971	
WFRA-405	U.S. Well Services, LLC	Friction Reducer					
			2-Propenoic acid, polymer with propanamide	29003-06-9	30.00000	0.01540	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01240	
LGC-15	U.S. Well Services, LLC	Gelling Agents					
			Guar Gum	9000-30-0	50.00000	0.00509	
			Petroleum Distillates	64742-47-8	60.00000	0.00482	
			Suspending agent (solid)	14808-60-7	3.00000	0.00078	
			Surfactant	68439-51-0	3.00000	0.00031	

Product	Supplier	Chemical Name	Product Code	Concentration	MSDS No.
Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent			
		2,2-dibromo-3-nitropropionamide	10222-01-2	20.00000	0.00410
SI-1200s	U.S. Well Services, LLC	Scale Inhibitor			
		Deionized Water	7732-18-5	28.00000	0.00234
AP One	U.S. Well Services, LLC	Scale Inhibitor			
		Proprietary Scale Inhibitor	Proprietary	10.00000	0.00129
AI-303	U.S. Well Services, LLC	Gel Breakers			
		Ammonium Persulfate	7727-54-0	100.00000	0.00014
		Acid Corrosion Inhibitors			
		Ethylene glycol	107-21-1	40.00000	0.00004
		Formic acid	64-18-6	20.00000	0.00002
		Cinnamaldehyde	104-55-2	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)

695' to Bottom Hole

9,533' to Top Hole

BTM HOLE LATITUDE 39 - 22 - 30
TOP HOLE LATITUDE 39 - 20 - 00

TOP HOLE LONGITUDE 80 - 45 - 00
BTM HOLE LONGITUDE 80 - 47 - 30
281' to Top Hole
6,154' to Bottom Hole

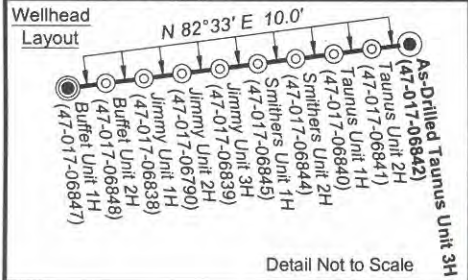
Antero Resources
Well No. Taurus Unit 3H
As-Drilled Plat
Antero Resources Corporation

ID	TM/Par	Owner	Bk/Pg	Ac.
1	4/29	Phillip S. Underwood, Patricia Cooper & Katherine S. Sisler	WB 51/709	0.46
2	4/23	Christian Church	49/71 & 72	0.85
3	2/8	Lawrence R. Weekley	WB 40/120	1.03
4	2/4.3	Robert B. Mary E. Simpson	152/657	0.25

Legend

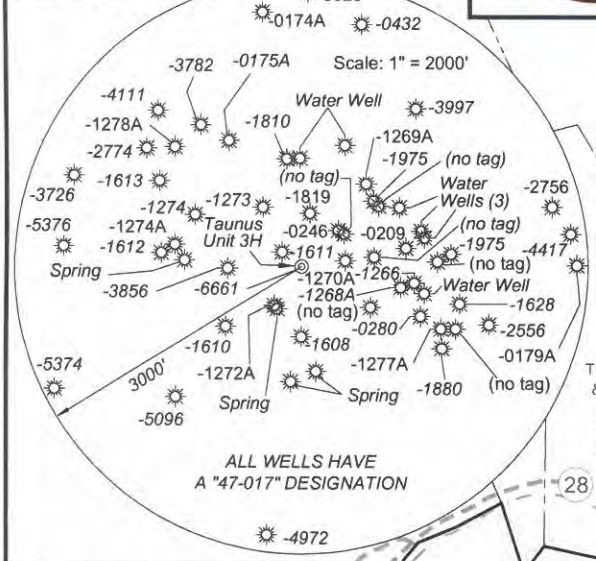
- ⊙ Proposed gas well
- ⊕ Found corner, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)
- ⊙ Existing well, as noted

⊙ Denotes Location of Well on United States Topographical Maps



Detail Not to Scale

Note: 6 water wells and 4 springs were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.



ALL WELLS HAVE A "47-017" DESIGNATION

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.

Bradley D. Miller
Bradley D. Miller, P.S. 2167

FILE NO: 43-30-WU-14
 DRAWING NO: Taurus 3H Well Plat 07-16
 SCALE: 1" = 1200'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: WVDOT, Harrisville, WV

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: December 27 2018
 OPERATOR'S WELL NO. Taurus Unit 3H
 API WELL NO.
47 - 017 - 06842
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: As-Built 1,065' WATERSHED: Headwaters Middle Island Creek QUADRANGLE: West Union

DISTRICT: West Union COUNTY: Doddridge

SURFACE OWNER: John Paul Strickling, et al ACREAGE: 357.75 31; 38; 84.25

ROYALTY OWNER: Carl W. Ash, et ux; W.F. Smith, et al; Freeman P. Smith, et al LEASE NO: _____ ACREAGE: 125; 368; 63.75; 36

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,714' TVD
16,596' MD

WELL OPERATOR: Antero Resources Corporation DESIGNATED AGENT: Dianna Stamper - CT Corporation System
 ADDRESS: 1615 Wynkoop Street ADDRESS: 5400 D Big Tyler Road
Denver, CO 80202 Charleston, WV 25313

Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
 Well No. Taurus Unit 3H Top Hole coordinates are
 N: 305,695.40' Latitude: 39°19'55.89"
 E: 1,636,899.84' Longitude: 80°47'01.27"
 Bottom Hole coordinates are
 N: 315,163.41' Latitude: 39°21'29.08"
 E: 1,634,171.05' Longitude: 80°47'37.73"
UTM Zone 17, NAD 1983
 Top Hole Coordinates Bottom Hole Coordinates
 N: 4,353,672.880m N: 4,356,543.441m
 E: 518,658.105m E: 517,778.654m
 Plat orientation and corner and well references are based upon the grid north meridian.
 Well location references are based upon the magnetic meridian.

	Bearing	Dist.
L1	N 88°23' E	796.7'
L2	N 52°23' E	1032.0'
L3	S 66°11' E	2012.8'
L4	N 68°43' W	1168.5'

Top Hole Coordinates, As-drilled data and information was provided by Antero Resources Corporation. Allegheny Surveys Inc. (ASI) is not certifying the data and information provided. ASI is not responsible for any errors or inaccuracies with the data and information that has been provided.

