

PPH... ID

AE: *[Signature]*

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

API 47 - 017 - 06665 County Doddridge District Central
Quad West Union 7.5' Pad Name Vogt Pad Field/Pool Name ----
Farm name Gregory R. & Carolyn S. Vogt Well Number McGill 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 4347566m Easting 511885m
Landing Point of Curve Northing 4347733.694m Easting 511906.671m
Bottom Hole Northing 4350731m Easting 510920m

Elevation (ft) 1112' 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

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Date permit issued 01/26/2015 Date drilling commenced 04/07/2016 Date drilling ceased 06/08/2016
Date completion activities began 02/02/2017 Date completion activities ceased 05/09/2017
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 18', 40', 136' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1628' 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:

11/10/2017

API 47-017 - 06665 Farm name Gregory R. & Carolyn S. Vogt Well number McGill 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"	34'	New	94#, K-55	N/A	Y
Surface	17-1/2"	13-3/8"	376'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2565'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	17614.5"	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6712'		4.7#, N-80		
Packer type and depth set		N/A					

Comment Details Please note this well was drilled to 17620' however casing was only run to 17614.5'

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	200 sx	16	1.18	236	0'	8 Hrs.
Surface	Class A	460 sx	15.6	1.18	543	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1009 sx	15.6	1.18	1191	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	941 sx (Lead) 1709 sx (Tail)	14.5 (Lead), 16.2 (Tail)	1.33 (Lead), 1.83 (Tail)	4379	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 17620' MD, 6556' TVD (BHL), 6593' (Deepest Point Drilled) Loggers TD (ft) 17568' MD

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

Plug back procedure N/A

Kick off depth (ft) 5868'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Duckbill Unit 2H API #47-017-06668). Please reference the wireline logs submitted with Form WR-35 for Duckbill 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

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Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____ WV Department of Environmental Protection

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 - 06665

Farm name Gregory R. & Carolyn S. Vogt

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

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Please insert additional pages as applicable.

API 47- 017 - 06665 Farm name Gregory R. & Carolyn S. Vogt Well number McGill Unit 1H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6551' (TOP)</u>	<u>TVD</u>	<u>6926' (TOP)</u> <u>MD</u>
_____	_____	_____	_____
_____	_____	_____	_____

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 10221 mcfpd Oil 88 bpd NGL --- bpd Water 343 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 Precision Drilling Company, LP
Address 2640 Reach Road City Williamsport State PA Zip 17701

Logging Company Clutch Energy Services LLC
Address 2154 Greensburg Road City New Kensington State PA Zip 15068

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Cementing Company Nabors Completion & Production Services, Co.
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

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Stimulating Company U.S. Well Services
Address 533 Industrial Park Drive City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Samantha Klaas Telephone 303-357-6759
Signature  Title Permitting Agent Date 10/02/2017

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

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	2/2/2017	17343	17511	48	Marcellus
2	3/13/2017	17143	17312	48	Marcellus
3	3/14/2017	16944	17112	48	Marcellus
4	3/14/2017	16744	16913	48	Marcellus
5	3/14/2017	16545	16713	48	Marcellus
6	3/14/2017	16345	16513	48	Marcellus
7	3/14/2017	16146	16314	48	Marcellus
8	3/15/2017	15946	16114	48	Marcellus
9	3/15/2017	15746	15915	48	Marcellus
10	3/15/2017	15547	15715	48	Marcellus
11	3/15/2017	15347	15516	48	Marcellus
12	3/15/2017	15148	15316	48	Marcellus
13	3/16/2017	14948	15116	48	Marcellus
14	3/16/2017	14748	14917	48	Marcellus
15	3/16/2017	14549	14717	48	Marcellus
16	3/16/2017	14349	14518	48	Marcellus
17	3/16/2017	14150	14318	48	Marcellus
18	3/17/2017	13950	14118	48	Marcellus
19	3/17/2017	13751	13919	48	Marcellus
20	3/17/2017	13551	13719	48	Marcellus
21	3/17/2017	13351	13520	48	Marcellus
22	3/18/2017	13152	13320	48	Marcellus
23	3/18/2017	12952	13121	48	Marcellus
24	3/18/2017	12753	12921	48	Marcellus
25	3/18/2017	12553	12721	48	Marcellus
26	3/18/2017	12354	12522	48	Marcellus
27	3/18/2017	12154	12322	48	Marcellus
28	3/19/2017	11954	12123	48	Marcellus
29	3/19/2017	11755	11923	48	Marcellus
30	3/19/2017	11555	11724	48	Marcellus
31	3/19/2017	11356	11524	48	Marcellus
32	3/19/2017	11156	11324	48	Marcellus
33	3/20/2017	10957	11125	48	Marcellus
34	3/20/2017	10757	10925	48	Marcellus
35	3/20/2017	10557	10726	48	Marcellus
36	3/20/2017	10358	10526	48	Marcellus
37	3/20/2017	10158	10327	48	Marcellus
38	3/20/2017	9959	10127	48	Marcellus
39	3/21/2017	9759	9927	48	Marcellus
40	3/21/2017	9559	9728	48	Marcellus
41	3/21/2017	9360	9528	48	Marcellus
42	3/21/2017	9160	9329	48	Marcellus
43	3/21/2017	8961	9129	48	Marcellus
44	3/21/2017	8761	8930	48	Marcellus
45	3/22/2017	8562	8730	48	Marcellus
46	3/22/2017	8362	8530	48	Marcellus
47	3/22/2017	8162	8331	48	Marcellus
48	3/22/2017	7963	8131	48	Marcellus
49	3/22/2017	7763	7932	48	Marcellus
50	3/22/2017	7564	7732	48	Marcellus
51	3/23/2017	7364	7532	48	Marcellus
52	3/23/2017	7165	7333	48	Marcellus
53	3/23/2017	6965	7133	48	Marcellus

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API 47-017-06665 Farm Name Gregory R. & Carolyn S. Vogt Well Number McGill 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	3/13/2017	77.1	8163	4985	3945	353700	11303	N/A
2	3/13/2017	82.0	8180	5257	4520	353695	7348	N/A
3	3/14/2017	80.3	8191	5550	4116	353700	7319	N/A
4	3/14/2017	81.1	8002	5583	4556	353150	7299	N/A
5	3/14/2017	80.9	8169	5926	4785	353200	7649	N/A
6	3/14/2017	81.6	7900	5733	4184	353000	7284	N/A
7	3/14/2017	81.9	7830	5851	4338	352910	7217	N/A
8	3/15/2017	83.7	7919	5804	4545	352830	7211	N/A
9	3/15/2017	79.8	7830	5443	4985	354150	7363	N/A
10	3/15/2017	83.9	8086	5246	4324	350550	8998	N/A
11	3/15/2017	82.8	7860	5347	3977	353110	7206	N/A
12	3/15/2017	83.3	7977	5121	4438	354460	7296	N/A
13	3/16/2017	81.6	7809	5232	4570	352900	8184	N/A
14	3/16/2017	82.6	7936	5218	4056	352700	8365	N/A
15	3/16/2017	84.1	7954	5454	4535	352050	7189	N/A
16	3/16/2017	84.2	7688	5082	4588	353950	7131	N/A
17	3/16/2017	84.8	7630	5286	4942	353120	7230	N/A
18	3/17/2017	82.6	7605	5254	4921	353450	7126	N/A
19	3/17/2017	85.1	7797	5633	5050	353100	7235	N/A
20	3/17/2017	84.6	7727	5389	4545	353700	8145	N/A
21	3/17/2017	83.0	7566	5354	5161	353210	7066	N/A
22	3/18/2017	82.9	7432	5472	4946	353950	7084	N/A
23	3/18/2017	83.0	7523	5579	4753	353770	7092	N/A
24	3/18/2017	84.5	7625	5372	4781	353900	8012	N/A
25	3/18/2017	82.8	7484	5432	4803	353200	8047	N/A
26	3/18/2017	83.2	7348	5254	5307	355560	7086	N/A
27	3/18/2017	83.3	7435	5314	5243	353540	7035	N/A
28	3/19/2017	83.3	7419	5540	4796	354050	7024	N/A
29	3/19/2017	84.7	7551	5339	5050	353400	7054	N/A
30	3/19/2017	85.4	7478	5400	5203	353650	7046	N/A
31	3/19/2017	85.5	7307	5558	5329	354100	7036	N/A
32	3/19/2017	85.0	7539	5604	4932	354095	7036	N/A
33	3/20/2017	85.1	7717	5186	4903	338020	8324	N/A
34	3/20/2017	83.7	7566	5461	5250	353500	8176	N/A
35	3/20/2017	85.3	7528	5915	5128	353500	7658	N/A
36	3/20/2017	84.9	7630	5844	4524	354500	8198	N/A
37	3/20/2017	84.1	7406	5203	4935	353070	8023	N/A
38	3/20/2017	83.5	7366	5676	4309	354200	7838	N/A
39	3/21/2017	85.1	7074	5200	5150	354540	6946	N/A
40	3/21/2017	85.1	7220	5286	4742	357300	6975	N/A
41	3/21/2017	84.9	7347	5586	5261	353340	6989	N/A
42	3/21/2017	85.2	7165	5575	4810	356870	7459	N/A
43	3/21/2017	85.4	7177	5890	5093	353000	6963	N/A
44	3/21/2017	85.1	7291	5565	5207	345400	6863	N/A
45	3/22/2017	84.9	7468	5629	4674	353540	6899	N/A
46	3/22/2017	81.7	7276	5693	5171	356700	6913	N/A
47	3/22/2017	84.8	7231	5217	4989	352800	6954	N/A
48	3/22/2017	82.7	7549	5547	4588	353600	8382	N/A
49	3/22/2017	84.8	7147	5679	4488	357800	6882	N/A
50	3/22/2017	84.7	7548	6255	5182	353950	6894	N/A
51	3/23/2017	85.2	6975	5261	5468	352960	6850	N/A
52	3/23/2017	85.3	7028	6058	5236	357450	6894	N/A
53	3/23/2017	80.4	6965	5393	4063	353730	7734	N/A
AVG=		83.5	7,578	5,485	4,781	18,729,620	395,530	TOTAL

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LITHOLOGY/ FORMATION	TOP DEPTH (TVD) From Surface	BOTTOM DEPTH (TVD) From Surface	TOP DEPTH (MD) From Surface	BOTTOM DEPTH (MD) From Surface
Fresh Water	18'	N/A	18'	N/A
Fresh Water	40'	N/A	40'	N/A
Fresh Water	136'	N/A	136'	N/A
Sandy Shale	est. 0	230	est. 0	230
Sandstone	est. 230	780	est. 230	780
Limestone	est. 780	910	est. 780	910
Sandstone/Limestone	est. 910	940	est. 910	940
Silty Dolostone	est. 940	1020	est. 940	1020
Silty Sandstone	est. 1020	1140	est. 1020	1140
Sandstone	est. 1140	1170	est. 1140	1170
Silty Sandstone	est. 1170	1200	est. 1170	1200
Silty Limestone	est. 1200	1230	est. 1200	1230
Siltstone	est. 1230	1380	est. 1230	1380
Silty Sandstone	est. 1380	1500	est. 1380	1500
Siltstone	est. 1500	1650	est. 1500	1650
Silty Dolostone	est. 1650	1950	est. 1650	1950
Silty Sandstone	est. 1950	2015	est. 1950	2015
Calcareous Sandstone	est. 2015	2061	est. 2015	2065
Big Lime	2061	2565	2065	2569
Gantz	2565	2693	2569	2697
Fifty Foot Sandstone	2693	2790	2697	2794
Gordon	2790	2978	2794	2982
Fifth Sandstone	2978	3139	2982	3143
Bayard	3139	3860	3143	3868
Speechley	3860	4165	3868	4177
Balltown	4165	4617	4177	4637
Bradford	4617	5027	4637	5055
Benson	5027	5290	5055	5323
Alexander	5290	5407	5323	5441
Elk	5407	5740	5441	5779
Rhinestreet	5740	6220	5779	6288
Sycamore	6220	6381	6288	6499
Middlesex	6381	6497	6499	6715
Burkett	6497	6522	6715	6792
Tully	6522	6551	6792	6926
Marcellus	6551	NA	6926	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:	3/13/2017
Job End Date:	3/23/2017
State:	West Virginia
County:	Doddridge
API Number:	47-017-06665-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	McGill 1H
Latitude:	39.27728056
Longitude:	-80.86238611
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,593
Total Base Water Volume (gal):	17,293,734
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	88.16172	
Sand	U.S. Well Services, LLC	Proppant	Crystalline Silica, quartz	14808-60-7	100.00000	11.44865	
HCL Acid (12.6%-17.5%)	U.S. Well Services, LLC	Bulk Acid	Water	7732-18-5	87.40000	0.24704	
			Hydrogen Chloride	7647-01-0	17.50000	0.05744	
LGC-15	U.S. Well Services, LLC	Gelling Agents	Guar Gum	9000-30-0	50.00000	0.01588	
			Petroleum Distillates	64742-47-8	60.00000	0.01504	
			Suspending agent (solid)	14808-60-7	3.00000	0.00243	
			Surfactant	68439-51-0	3.00000	0.00095	
WFRA-500	U.S. Well Services, LLC	Friction Reducer	2-Propenoic acid, polymer with propenamide	29003-06-9	30.00000	0.01870	
			Hydrated light distillate (petroleum)	64742-47-8	30.00000	0.01505	

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SI-1100	U.S. Well Services, LLC	Scale Inhibitor					
			Ethylene Glycol	107-21-1	40.00000	0.00708	
			Copolymer of Maleic and Acrylic acid	52255-49-9	10.00000	0.00146	
			Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8	3.00000	0.00050	
			Hexamethylene triamine penta (methylene phosphonic acid)	34690-00-1	3.00000	0.00048	
			Phosphino carboxylic acid polymer	71050-62-9	3.00000	0.00048	
Bioclear 2000	U.S. Well Services, LLC	Anti-Bacterial Agent					
			2,2-dibromo-3-nitrilopropionamide	10222-01-2	20.00000	0.00397	
			Deionized Water	7732-18-5	28.00000	0.00227	
AP One	U.S. Well Services, LLC	Gel Breakers					
			Ammonium Persulfate	7727-54-0	100.00000	0.00068	
AI-303	U.S. Well Services, LLC	Acid Corrosion Inhibitors					
			Ethylene glycol	107-21-1	40.00000	0.00008	
			Cinnamaldehyde	104-55-2	20.00000	0.00003	
			Formic acid	64-18-6	20.00000	0.00003	
			Butyl cellosolve	111-76-2	20.00000	0.00003	
			Polyether	60828-78-6	10.00000	0.00001	
			Acetophenone, thiourea, formaldehyde polymer	68527-49-1	5.00000	0.00001	

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)

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LATITUDE 39°17'30"

8,224'

LATITUDE 39°20'00"

11,372' TO BOTTOM HOLE

Antero Resources Corporation
Well No. McGill Unit 1H
API 47-017-06665

WELL 1H
BOTTOM HOLE

VIRGINIA L. COTTRILL ET AL LEASE

WILLIAM COTTRILL JR ET AL
D.B. 233 PG. 479
T.J.L. & PAR. 02
69.33 AC.±

THELMA S. JAMES ET AL
W.2. 233 PG. 324
T.J.L. & PAR. 04
107 AC.±

EDWARD V. REGE D.B. 181 PG. 437
T.J.L. & PAR. 02
69.33 AC.±

EDWARD V. REGE D.B. 181 PG. 437
T.J.L. & PAR. 02
69.33 AC.±

KENILDA M. KELLEY ET AL
D.B. 249 PG. 451
T.J.L. & PAR. 17
30 AC.±

HARRIS HEIRS LEASE

KENILDA M. KELLEY ET AL
D.B. 238 PG. 472
T.J.L. & PAR. 12
21 AC.±

ARTHUR G. FAYNE ET AL
D.B. 237 PG. 502
T.J.L. & PAR. 10
70.5 AC.±

OSD DUCKWORTH
D.B. 3 PG. 344
T.J.L. & PAR. 11
39 AC.±

JERRY L. NICHOLS D.B. 213 PG. 440
T.J.L. & PAR. 23.10
7.32 AC.±

JERRY L. NICHOLS D.B. 190 PG. 209
T.J.L. & PAR. 23
49.30 AC.±

JERRY L. NICHOLS D.B. 205 PG. 41
T.J.L. & PAR. 24
59.39 AC.±

JERRY L. NICHOLS D.B. 184 PG. 229
T.J.L. & PAR. 23
49.30 AC.±

JACK HOLY ET AL
D.B. 233 PG. 18
T.J.L. & PAR. 23.23
33.39 AC.±

JACK HOLY ET AL
D.B. 184 PG. 205
T.J.L. & PAR. 24.4
7.81 AC.±

ANNIE AGNUS HURST LEASE

FRANK MCGILL ET AL
D.B. 193 PG. 270
T.J.L. & PAR. 40
35.88 AC.±

EDWARD KELLEY ET AL
D.B. 173 PG. 295
T.J.L. & PAR. 32
64.78 AC.±

EDWARD KELLEY ET AL
D.B. 237 PG. 241
T.J.L. & PAR. 24.2
137 AC.±

JACK HOLY ET AL
D.B. 276 PG. 420
T.J.L. & PAR. 24.2
9.99 AC.±

TODD E. VALENTINI ET AL
D.B. 250 PG. 4
T.J.L. & PAR. 32.2
113 AC.±

RONALD RICHARDS ET AL
D.B. 230 PG. 73
T.J.L. & PAR. 32.1
133 AC.±

FRANK MCGILL ET AL LEASE
FRANK MCGILL ET AL
D.B. 193 PG. 270
T.J.L. & PAR. 40
35.88 AC.±

DEB HENDERSON D.B. 292 PG. 470
T.J.L. & PAR. 40.1
5.99 AC.±

FLOYD MCGILL, JR. ET AL LEASE

JAMES A. DOAK D.B. 244 PG. 51
T.J.L. & PAR. 31
176 AC.±

WILLIAM G. ANDERSON D.B. 205 PG. 479
T.J.L. & PAR. 40.2
30 AC.±

JOHN A. BASSLER ET AL
D.B. 229 PG. 602
T.J.L. & PAR. 65
15 AC.±

JOHN A. BASSLER ET AL
D.B. 229 PG. 602
T.J.L. & PAR. 65
15 AC.±

JOHN A. BASSLER ET AL
D.B. 229 PG. 602
T.J.L. & PAR. 65
15 AC.±

JOSEPH L. TOWNHOL D.B. 267 PG. 31
T.J.L. & PAR. 4
32.05 AC.±

RESINA E. RICHARDS ET AL
W.A. 32 PG. 119
T.J.L. & PAR. 01
23.02 AC.±

JOHN R. DAVIS D.B. 245 PG. 703
T.J.L. & PAR. 44
30 AC.±

FRANK MCGILL ET AL
D.B. 193 PG. 270
T.J.L. & PAR. 40
35.88 AC.±

FRANK MCGILL ET AL
D.B. 193 PG. 270
T.J.L. & PAR. 40
35.88 AC.±

FRANK MCGILL ET AL
D.B. 193 PG. 270
T.J.L. & PAR. 40
35.88 AC.±

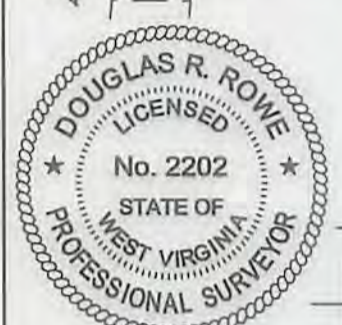
ANNA BARKER ET AL LEASE

JERRY A. NORMAN ET AL
D.B. 204 PG. 370
T.J.L. & PAR. 56
31 AC.±

AMABELL E. REFFLE D.B. 230 PG. 176
T.J.L. & PAR. 01
107.93 AC.±

AMABELL E. REFFLE D.B. 230 PG. 176
T.J.L. & PAR. 01
107.93 AC.±

AMABELL E. REFFLE D.B. 230 PG. 176
T.J.L. & PAR. 01
107.93 AC.±



API WELL # 47 - 017 - 06665
STATE COUNTY PERMIT

JOB # 14-089WA
DRAWING # MCGILL1HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

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

DOUGLAS R. ROWE P.S. 2202

DATE 09/27/17

OPERATOR'S WELL # MCGILL 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 DEPT. OF ENERGY DIVISION OF OIL AND GAS
WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL
(IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION 1,112' AS DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK
QUADRANGLE WEST UNION 7.5' (TH) PENNSBORO 7.5' (BH) DISTRICT CENTRAL COUNTY DODDRIDGE
SURFACE OWNER GREGORY R. & CAROLYN S. VOGT ACREAGE 12.07 ACRES +/-
OIL & GAS ROYALTY OWNER PATRICK A. WRIGHT; FLOYD MCGILL, JR. ET AL; LEASE ACREAGE 222 AC.±; 107 AC.±;
FRANK MCGILL ET AL; ANNIE AGNUS HURST; MARK DUTY ET UX; 106 AC.±; 25 AC.±; 71 AC.±;
NINA DUCKWORTH; VIRGIL DEEM; VIRGINIA L. COTTRILL ET AL 58.75 AC.±; 107 AC.±; 70 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 6,558' TVD 17,620' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS CT CORPORATION SYSTEM
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

AS DRILLED:
WELL 1H TOP HOLE INFORMATION:
N: 286,026ft E: 1,614,337ft
LAT: 39°16'38.21" LON: 80°51'44.58"
BOTTOM HOLE INFORMATION:
N: 296,467ft E: 1,611,345ft
LAT: 39°18'20.95" LON: 80°52'24.67"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TREMBLE 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: 4,347,566m E: 511,885m
BOTTOM HOLE INFORMATION:
N: 4,350,731m E: 510,920m

- 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 BY JOHN HERRON 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 OMISSIONS WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

5,240' LONGITUDE 80°50'00" 10,021' TO BOTTOM HOLE LONGITUDE 80°50'00"

COUNTY NAME PERMIT

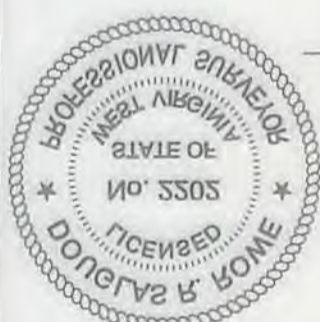
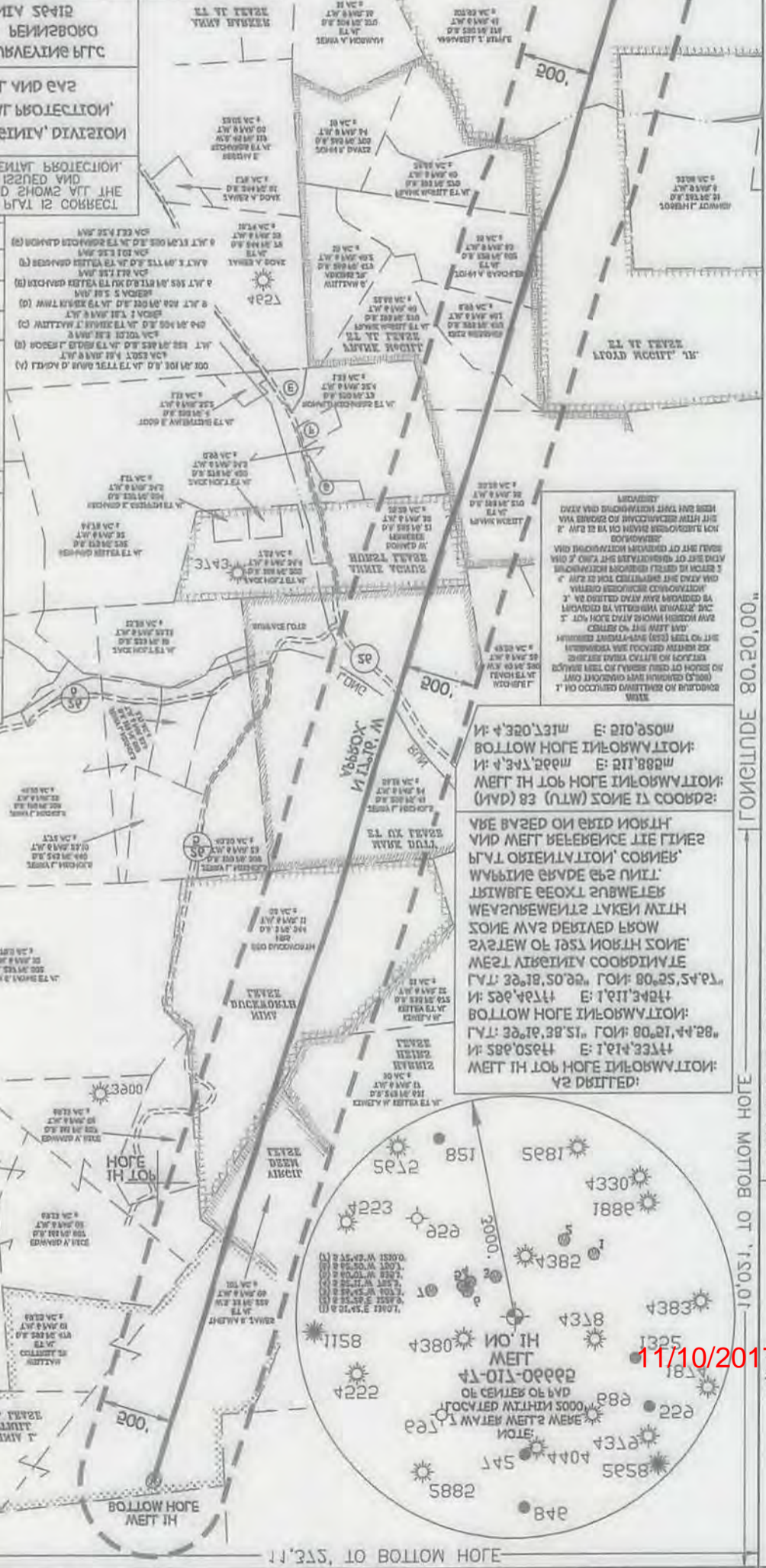
FORM MM-8 DENVER CO 80505 CHANGE/STATION MA 52313
 ADDRESS 1818 MILKWOOD STREET ADDRESS 4900 D BIG LIPS ROAD
 METT OPERATOR UNIVERSAL RESOURCES CORP DESIGNATED AGENT ST COBORVATION SYSTEM
 DIAMIA STAMPER
 TARGET FORMATION MANGELUS ESTIMATED DEPTH 8,228.14 D, 850. MD
 (SPECIES) AS DRILLED BONE & AVOIDION GRAIN OUL & BEGUS
 BONE OFF OLD FORMATION BEFORATE NEM FORMATION OTHER PHYSICAL CHANGE IN METT
 PROPOSED WORK: DRIFT COLLIERI DRIFT DEEBER BEDRIFT FRACTURE OR STIMULATE
 MINIMUM DEPTH: 100 FT. COLLIERI COLLIERI EL V
 BONE OFF OLD FORMATION: 100 FT. COLLIERI COLLIERI EL V
 OIL & GAS HOLDING COMPANY: UNIVERSAL RESOURCES CORP. EL V: TARGET BONEVE
 335 VC: 101 VC:
 SUBURSE OMMER: SVEGORA B & SVOGOLI S' LOGI VORVACE 15'01 VORVAC 4-
 OPERATIONAL METT POINT S' (IN) BEINGBOVO S' (ON) DISTRICT CENTER SOCIETY DORRIDGE
 LOCATION: ELEVATION 7,115. AS DRILLED MATURED HEADMATTERS WIDGE RIGAND CREEK
 (IF "GAS") PRODUCTION X STORAGE DEEB SHATTOM X
 METT TYPE: OIL GAS X FLUID INJECTION WATER DISPOSAL
 STATE OF METT AGENCY DEPT. OF ENERGY DIVISION OF OIL AND GAS



METT AGENCY S-412
 550 WAGON WHEEL BEINGBOVO
 WITCOM LAND SUBLEASING BLS
 OFFICE OF OIL AND GAS
 OF ENVIRONMENTAL PROTECTION
 STATE OF WEST VIRGINIA DIVISION

DESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION
 INFORMATION RECEIVED BY GUM AND THE BONES ISSUED AND
 TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE
 INFORMATION UNDERSTANDING HEREBY CERTIFY THAT THIS IS CORRECT

OBSERVATION METT # METT UNIT #111
 DATE 08/11/14
 DONGLAS B' BOME B'2' 5505
 AS DRILLED WITH
 PROPOSED
 FOUND MONUMENT
 EXISTING
 INTERSECTION
 SURFACE CHANGES BOUNDARY LINES
 GENERAL
 SUBMETER MAPPING SCALE OF 2
 BONE SOURCE OF ELEV
 ACCURACY SUBMETER
 MINIMUM DEGREE OF
 SCALE 1" = 1000'
 DRAWING # METT 111
 JOB # 44-0884W
 STATE COUNTY PERMIT
 44 011 - 08882
 44 METT #



GRID NORTH
 MA NORTH ZONE
 METT IN TOP
 METT IN BOTTOM
 BOTTOM HOGE
 WITCOM LAND SUBLEASING BLS
 UNIVERSAL RESOURCES CORPORATION
 METT NO. 44-111-08882
 LATITUDE 38.50.00"

W: 4320.131" E: 210.250"
 BOTTOM HOGE INFORMATION:
 W: 4324.244" E: 211.888"
 METT IN TOP HOGE INFORMATION:
 (NAD 83) (UTM) (ZONE 17 COORDS):
 ARE BASED ON GRID NORTH
 AND METT REFERENCE LINE
 THAT ORIENTATION CORNER
 WYBINE BOUNDARY IS
 DISTANCE EXACT SUBMETER
 WEATHERMENTS TAKEN WITH
 SOME WAS DERIVED FROM
 SYSTEM OF 1957 NORTH ZONE
 WEST VIRGINIA COORDINATE
 SYSTEM: 38.18.50.22, GON: 80.25.54.24,
 W: 52.84.44.44 E: 1.21.1.21
 BOTTOM HOGE INFORMATION:
 GY: 38.18.38.15, GON: 80.21.44.28,
 W: 52.85.05.05 E: 1.21.1.21
 METT IN TOP HOGE INFORMATION:
 AS DRILLED:

ENCLOSURE 80.20.00"
 ENCLOSURE 80.20.00"
 10'03.1" TO BOTTOM HOGE
 2.37"

11/10/2017