

APPROVED

NAME:

DATE:

Julia
9/15/16



Antero Resources
1615 Wynkoop Street
Denver, CO 80202
Office 303.357.7310
Fax 303.357.7315

August 31, 2016

West Virginia Department of Environmental Protection
Office of Oil and Gas
Attn: John Kearney
601 57th Street
Charleston, WV 25304

Mr. Kearney:

Please find enclosed the Well Operator's Report of Well Work, Form WR-35 (including As-Drilled Survey Plat, Directional Survey and FracFocus report) and corresponding logs for the following well:

- Hoskins Unit 1H (API# 47-017-06416) – Hamilton Pad
- **Hoskins Unit 2H** (API# 47-017-06304) – Hamilton Pad

If you have any questions please feel free to contact me at (303) 357-7233.

Sincerely,

Kara Quackenbush

Kara Quackenbush
Permitting Agent
Antero Resources Corporation

Enclosures

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Office of Oil and Gas
SEP 9 1 2016
WV Department of
Environmental Protection

10/28/2016

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

API 47-017-06304 County Doddridge District Grant
Quad Smithburg 7.5' Pad Name Hamilton Field/Pool Name ---
Farm name Kenneth E. Hamilton, et al Well Number Hoskins Unit 2H
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 4357619m Easting 522089m
Landing Point of Curve Northing 4357823.44m Easting 522333.66m
Bottom Hole Northing 4360132m Easting 521407m

Elevation (ft) 1157' 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

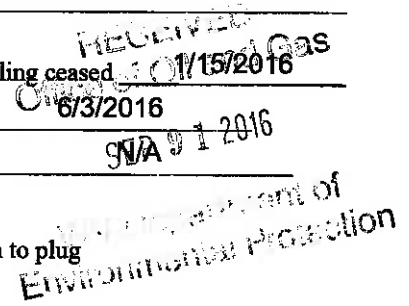
Date permit issued 9/03/2013 Date drilling commenced 9/5/2014 Date drilling ceased 10/15/2016
Date completion activities began 3/28/2016 Date completion activities ceased 6/3/2016
Verbal plugging (Y/N) N/A Date permission granted N/A Granted by SVA 9/1/2016

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 225' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 630' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 840' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by:

10/28/2016



API 47-017 - 06304 Farm name Kenneth E. Hamilton, et al Well number Hoskins Unit 2H

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	30"	20"	40'	New	94# J-55	N/A	Y
Surface	17-1/2"	13-3/8"	393'	New	48# H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2597'	New	36# J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15663'	New	23# P-110	N/A	Y
Tubing		2-3/8"	7272'		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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	200 sx	15.6	1.18	38	0'	8 Hrs.
Surface	Class A	469 sx	15.6	1.18	273	0'	8 Hrs.
Coal							
Intermediate 1	Class A	956 sx	15.6	1.18	813	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1101 sx (Lead) 1307 sx (Tail)	14.5 (Lead), 15.2 (Tail)	1.33 (Lead), 1.83 (Tail)	3108	~500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15663' MD, 6975' TVD (BHL); 7003' TVD (Deepest Point Drilled) Loggers TD (ft) 15613'

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

Plug back procedure N/A

Kick off depth (ft) 6707'

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 _____

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Costlow Unit 1H API #47-017-06194). Please reference the wireline logs submitted with Form WR-35 for Costlow Unit 1H. A Cement Bond Log has been included with this submittal.

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Department of Environmental Protection

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	28-Mar-16	15,394	15,561	60	Marcellus
2	2-Apr-16	15,197	15,363	60	Marcellus
3	2-Apr-16	15,000	15,166	60	Marcellus
4	3-Apr-16	14,802	14,969	60	Marcellus
5	3-Apr-16	14,605	14,772	60	Marcellus
6	3-Apr-16	14,408	14,574	60	Marcellus
7	4-Apr-16	14,211	14,377	60	Marcellus
8	4-Apr-16	14,014	14,180	60	Marcellus
9	4-Apr-16	13,816	13,983	60	Marcellus
10	5-Apr-16	13,619	13,785	60	Marcellus
11	5-Apr-16	13,422	13,588	60	Marcellus
12	5-Apr-16	13,225	13,391	60	Marcellus
13	6-Apr-16	13,027	13,194	60	Marcellus
14	6-Apr-16	12,830	12,996	60	Marcellus
15	6-Apr-16	12,633	12,799	60	Marcellus
16	7-Apr-16	12,436	12,602	60	Marcellus
17	7-Apr-16	12,238	12,405	60	Marcellus
18	8-Apr-16	12,041	12,208	60	Marcellus
19	8-Apr-16	11,844	12,010	60	Marcellus
20	8-Apr-16	11,647	11,813	60	Marcellus
21	8-Apr-16	11,450	11,616	60	Marcellus
22	8-Apr-16	11,252	11,419	60	Marcellus
23	9-Apr-16	11,055	11,221	60	Marcellus
24	9-Apr-16	10,858	11,024	60	Marcellus
25	9-Apr-16	10,661	10,827	60	Marcellus
26	9-Apr-16	10,463	10,630	60	Marcellus
27	10-Apr-16	10,266	10,432	60	Marcellus
28	10-Apr-16	10,069	10,235	60	Marcellus
29	10-Apr-16	9,872	10,038	60	Marcellus
30	10-Apr-16	9,674	9,841	60	Marcellus
31	11-Apr-16	9,477	9,644	60	Marcellus
32	11-Apr-16	9,280	9,446	60	Marcellus
33	11-Apr-16	9,083	9,249	60	Marcellus
34	12-Apr-16	8,885	9,052	60	Marcellus
35	12-Apr-16	8,688	8,855	60	Marcellus
36	12-Apr-16	8,491	8,657	60	Marcellus
37	12-Apr-16	8,294	8,460	60	Marcellus
38	12-Apr-16	8,097	8,263	60	Marcellus
39	13-Apr-16	7,899	8,066	60	Marcellus
40	13-Apr-16	7,702	7,868	60	Marcellus
41	13-Apr-16	7,505	7,671	60	Marcellus
42	13-Apr-16	7,308	7,474	60	Marcellus

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	2-Apr-16	68.7	7,611	0	5,422	310,800	7,968	N/A
2	2-Apr-16	71.3	7,770	6,015	5,161	306,280	7,879	N/A
3	2-Apr-16	71.0	7,828	5,879	5,440	308,250	8,870	N/A
4	3-Apr-16	70.5	7,758	5,822	5,400	306,900	7,888	N/A
5	3-Apr-16	69.6	7,656	6,367	4,849	306,100	7,821	N/A
6	3-Apr-16	73.5	7,759	5,836	5,035	307,250	7,823	N/A
7	4-Apr-16	74.1	7,893	5,686	5,064	306,350	7,943	N/A
8	4-Apr-16	74.0	7,704	5,980	5,354	281,550	7,574	N/A
9	4-Apr-16	72.6	7,406	5,311	4,209	306,200	7,744	N/A
10	5-Apr-16	74.1	7,889	5,919	5,236	307,250	7,764	N/A
11	5-Apr-16	73.0	7,861	5,561	4,896	307,500	7,824	N/A
12	5-Apr-16	72.3	7,532	5,429	5,633	307,400	7,715	N/A
13	6-Apr-16	71.7	7,370	5,325	5,500	308,800	7,702	N/A
14	6-Apr-16	73.0	7,354	5,701	6,019	308,450	9,166	N/A
15	6-Apr-16	71.6	7,685	5,529	5,472	307,700	7,678	N/A
16	7-Apr-16	72.1	7,710	5,604	5,214	300,300	8,588	N/A
17	7-Apr-16	73.3	7,567	5,740	5,618	307,950	7,679	N/A
18	8-Apr-16	73.8	7,502	5,908	5,261	308,000	7,650	N/A
19	8-Apr-16	73.0	7,645	5,593	5,425	308,400	7,730	N/A
20	8-Apr-16	72.0	7,552	5,350	5,357	307,950	9,082	N/A
21	8-Apr-16	74.3	7,432	5,389	5,393	308,450	7,608	N/A
22	8-Apr-16	73.0	7,604	5,343	5,125	307,200	7,592	N/A
23	9-Apr-16	74.0	7,682	5,168	5,511	306,150	7,577	N/A
24	9-Apr-16	74.0	7,648	5,543	5,543	307,800	7,590	N/A
25	9-Apr-16	74.0	7,649	5,515	5,876	308,400	7,557	N/A
26	9-Apr-16	74.1	7,379	5,443	4,685	304,500	7,540	N/A
27	10-Apr-16	73.4	7,098	5,225	4,871	308,400	7,539	N/A
28	10-Apr-16	73.0	7,526	5,618	5,722	308,700	7,548	N/A
29	10-Apr-16	75.0	7,353	5,600	5,711	309,350	7,530	N/A
30	10-Apr-16	74.3	7,384	5,665	5,364	308,900	7,511	N/A
31	11-Apr-16	74.3	7,118	6,028	5,461	308,600	7,478	N/A
32	11-Apr-16	74.0	7,038	5,697	5,422	309,600	7,497	N/A
33	11-Apr-16	75.0	7,009	5,697	4,935	309,500	8,693	N/A
34	12-Apr-16	73.8	6,985	5,389	4,846	307,400	7,439	N/A
35	12-Apr-16	75.0	7,032	5,945	5,240	308,050	8,327	N/A
36	12-Apr-16	75.0	6,891	5,829	5,304	309,650	7,415	N/A
37	12-Apr-16	74.8	6,885	5,572	5,561	306,460	7,402	N/A
38	12-Apr-16	74.2	6,717	5,701	4,742	308,200	7,392	N/A
39	13-Apr-16	76.0	6,901	5,929	4,849	308,350	8,170	N/A
40	13-Apr-16	75.0	6,734	5,568	5,053	309,350	7,474	N/A
41	13-Apr-16	76.0	6,635	5,547	5,132	308,350	7,353	N/A
42	13-Apr-16	75.5	6,755	6,019	4,638	263,110	8,261	N/A
AVG=		73.4	7,393	5,523	5,251	12,853,850	7,823	TOTAL

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	225'	N/A	225'	N/A
Shale	0	390	0	390
Sandstone/Siltstone/Shale	est. 390	750	est. 390	750
Sandstone	est. 750	840	est. 750	840
Coal	est. 840	870	est. 840	870
Sandstone	est. 870	1080	est. 870	1080
Siltstone	est. 1080	1140	est. 1080	1140
Sandstone	est. 1140	1470	est. 1140	1470
Shale	est. 1470	1650	est. 1470	1650
Sandstone	est. 1650	1800	est. 1650	1800
Shale	est. 1800	1890	est. 1800	1890
Sandstone	est. 1890	1950	est. 1890	1950
Shale	est. 1950	2010	est. 1950	2010
Sandstone	est. 2010	2122	est. 2010	2124
Big Lime	2122	2234	2124	2236
Big Injun	2234	2664	2236	2666
Gantz Sand	2664	2811	2666	2813
Fifty Foot Sandstone	2811	2883	2813	2885
Gordon	2883	3232	2885	3234
Fifth Sandstone	3232	3250	3234	3252
Bayard	3250	3599	3252	3601
Warren	3599	3992	3601	3994
Speechley	3992	4238	3994	4240
Baltown	4238	4710	4240	4715
Bradford	4710	5187	4715	5217
Benson	5187	5453	5217	5511
Alexander	5453	5641	5511	5717
Elk	5641	6161	5717	6284
Rhinestreet	6161	6542	6284	6701
Sycamore	6542	6726	6701	6908
Middlesex	6726	6860	6908	7096
Burkett	6860	6889	7096	7147
Tully	6889	6944	7147	7269
Marcellus	6944	NA	7269	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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WV Department of
Environmental Protection
10/28/2016

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date	4/2/2016
Job End Date	4/13/2016
State	West Virginia
County	Doddridge
API Number	47-017-06304-00-00
Operator Name	Antero Resources Corporation
Well Name and Number	Hoskins 2H
Latitude	39.36775300
Longitude	-80.74357500
Datum	NAD83
Federal Well	NO
Indian Well	NO
True Vertical Depth	7,003
Total Base Water Volume (gal)	13,804,890
Total Base Non Water Volume	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Service Abstract Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Antero Resources	Base Fluid	Water	7732-18-5	100.00000	89.60797	
Sand	J.S. Well Services, LLC	Proppant					
HCL Acid (12.6%-18.0%)	J.S. Well Services, LLC	Bulk Acid	Crystalline Silica, quartz	14808-60-7	100.00000	10.00417	
LGC-15	J.S. Well Services	Gelling Agents	Water	7732-18-5	87.50000	0.14469	
			Hydrogen Chloride	7647-01-0	18.00000	0.03456	
			Guar Gum	9000-30-0	50.00000	0.05042	
			Petroleum Distillates	84742-47-8	60.00000	0.04775	
			Suspending agent (solid)	14808-60-7	3.00000	0.00771	
			Surfactant	88439-51-0	3.00000	0.00303	
WFRA-405	J.S. Well Services	Friction Reducer	Water	7732-18-5	60.00000	0.03605	
			2-Propanoic acid, polymer with 29003-06-9 propanamide	29003-06-9	30.00000	0.01802	
			Hydrated light distillate (petroleum)	84742-47-8	30.00000	0.01451	

SI-1100	J.S. Well Services	Scale Inhibitor	Ethoxylated alcohol blend	98002-97-1	4.00000	0.00240
			Water	7732-18-5	80.00000	0.01055
			Ethylene Glycol	107-21-1	25.00000	0.00373
			Copolymer of Maleic and Acrylic acid	52255-49-9	10.00000	0.00156
			Potassium salt of diethylene triamine penta (methylene phosphonic acid)	15827-60-8	7.50000	0.00134
			Hexamethylene triamine penta (methylene phosphonic acid)	34690-00-1	5.00000	0.00088
			Phosphino carboxylic acid polymer	71050-62-8	5.00000	0.00086
			Hexamethylene diamine penta (methylene phosphonic acid)	23605-74-5	2.00000	0.00034
K-BAC 1020	J.S. Well Services	Anti-Bacterial Agent	2,2-dibromo-3-nitropropanamide	10222-01-2	20.00000	0.00450
			Deionized Water	7732-18-5	28.00000	0.00257
AP One	J.S. Well Services	Gel Breakers	Ammonium Persulfate	7727-54-0	100.00000	0.00206
AI-302	J.S. Well Services	Acid Corrosion Inhibitors	Water	7732-18-5	95.00000	0.00031
			2-Propyn-1-ol compound with Triethylsilane	38172-91-7	15.00000	0.00005

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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 SEP 22 2016
 Gas

10/28/2016

LATITUDE 39°22'30"

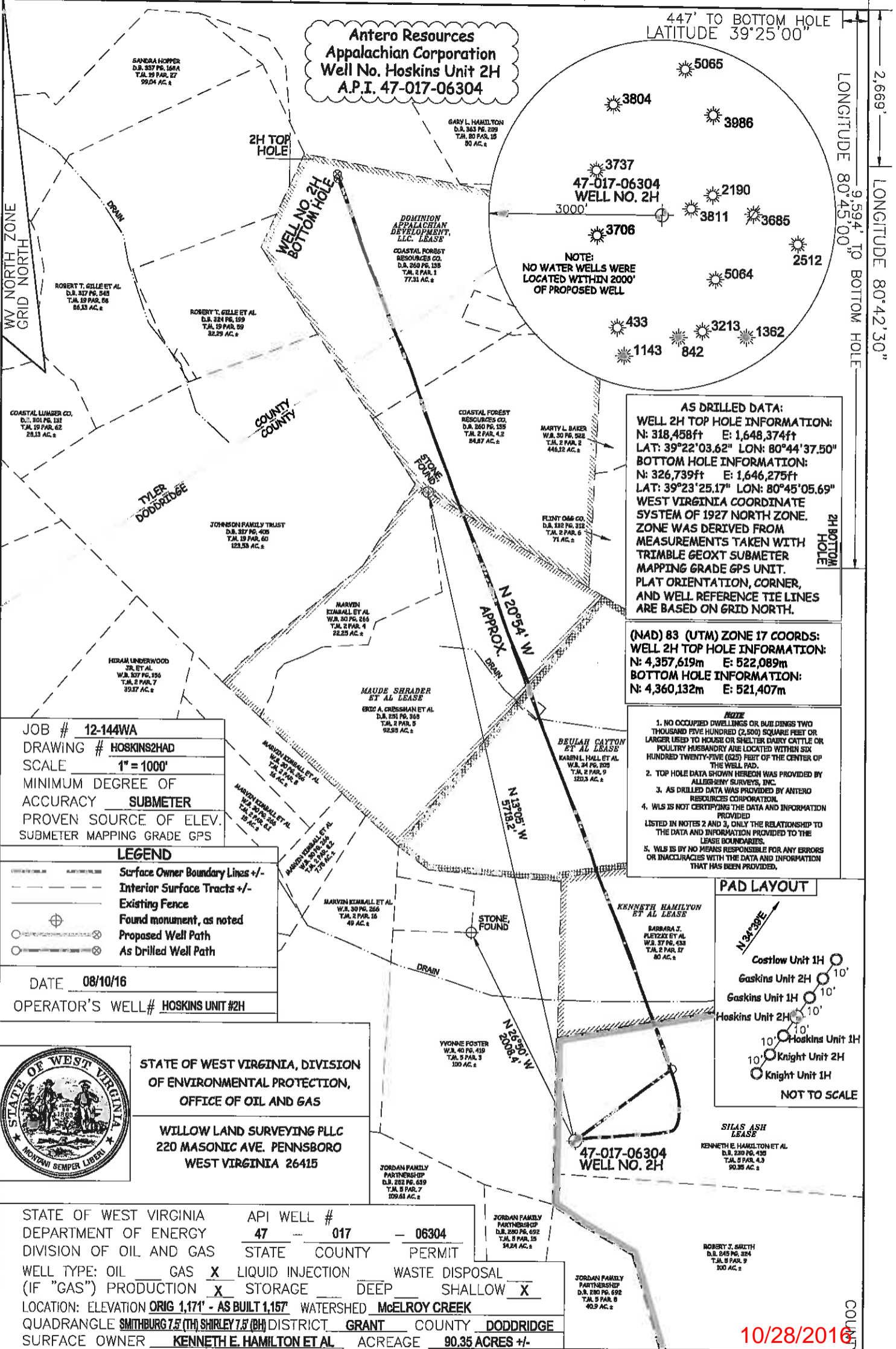
10,013'

447' TO BOTTOM HOLE
LATITUDE 39°25'00"

LONGITUDE 80°45'00"

LONGITUDE 80°42'30"

**Antero Resources
Appalachian Corporation
Well No. Hoskins Unit 2H
A.P.I. 47-017-06304**



AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
N: 318,458ft E: 1,648,374ft
LAT: 39°22'03.62" LON: 80°44'37.50"
BOTTOM HOLE INFORMATION:
N: 326,739ft E: 1,646,275ft
LAT: 39°23'25.17" LON: 80°45'05.69"
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 2H TOP HOLE INFORMATION:
N: 4,357,619m E: 522,089m
BOTTOM HOLE INFORMATION:
N: 4,360,132m E: 521,407m

- 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.

JOB # 12-144WA
DRAWING # HOSKINS2HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

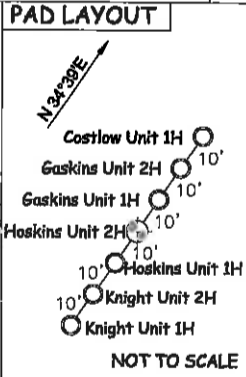
LEGEND
Surface Owner Boundary Lines +/-
Interior Surface Tracts +/-
Existing Fence
Found monument, as noted
Proposed Well Path
As Drilled Well Path

DATE 08/10/16
OPERATOR'S WELL# HOSKINS UNIT #2H



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 DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
API WELL # 47 - 017 - 06304
WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION ORIG 1,171' - AS BUILT 1,157' WATERSHED McELROY CREEK
QUADRANGLE SMITHBURG 7.5 (TH) SHIRLEY 7.5 (BH) DISTRICT GRANT COUNTY DODDRIDGE
SURFACE OWNER KENNETH E. HAMILTON ET AL ACREAGE 90.35 ACRES +/-
OIL & GAS ROYALTY OWNER SILAS ASH; KENNETH HAMILTON ET AL; BEULAH CAYTON ET AL; MAUDE SHRADER ET AL; DOMINION APPALACHIAN DEVELOPMENT LLC
LEASE ACREAGE 120 ACRES±; 80 ACRES±; 123.5 ACRES±; 114.5 ACRES±; 187.29 ACRES±

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
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,975' TVD 15,663' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

10/28/2016

COUNTY NAME PERMIT

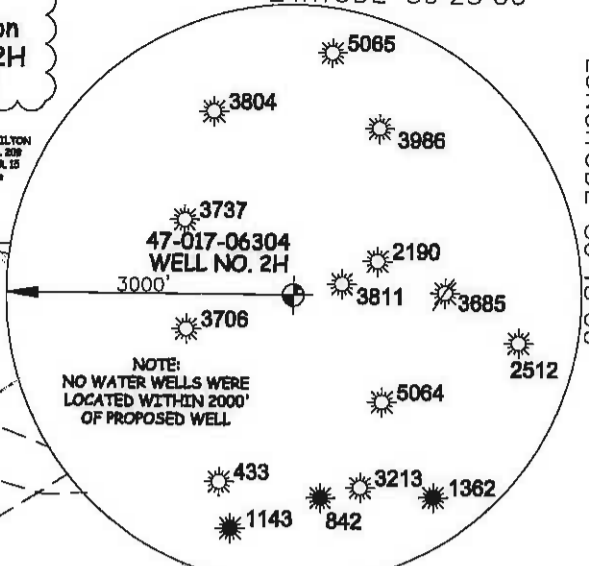
LATITUDE 39°22'30"

10,013'

447' TO BOTTOM HOLE
LATITUDE 39°25'00"

2,669'
LONGITUDE 80°45'00"
9,594' TO BOTTOM HOLE
LONGITUDE 80°42'30"

Antero Resources
Appalachian Corporation
Well No. Hoskins Unit 2H
A.P.I. 47-017-06304

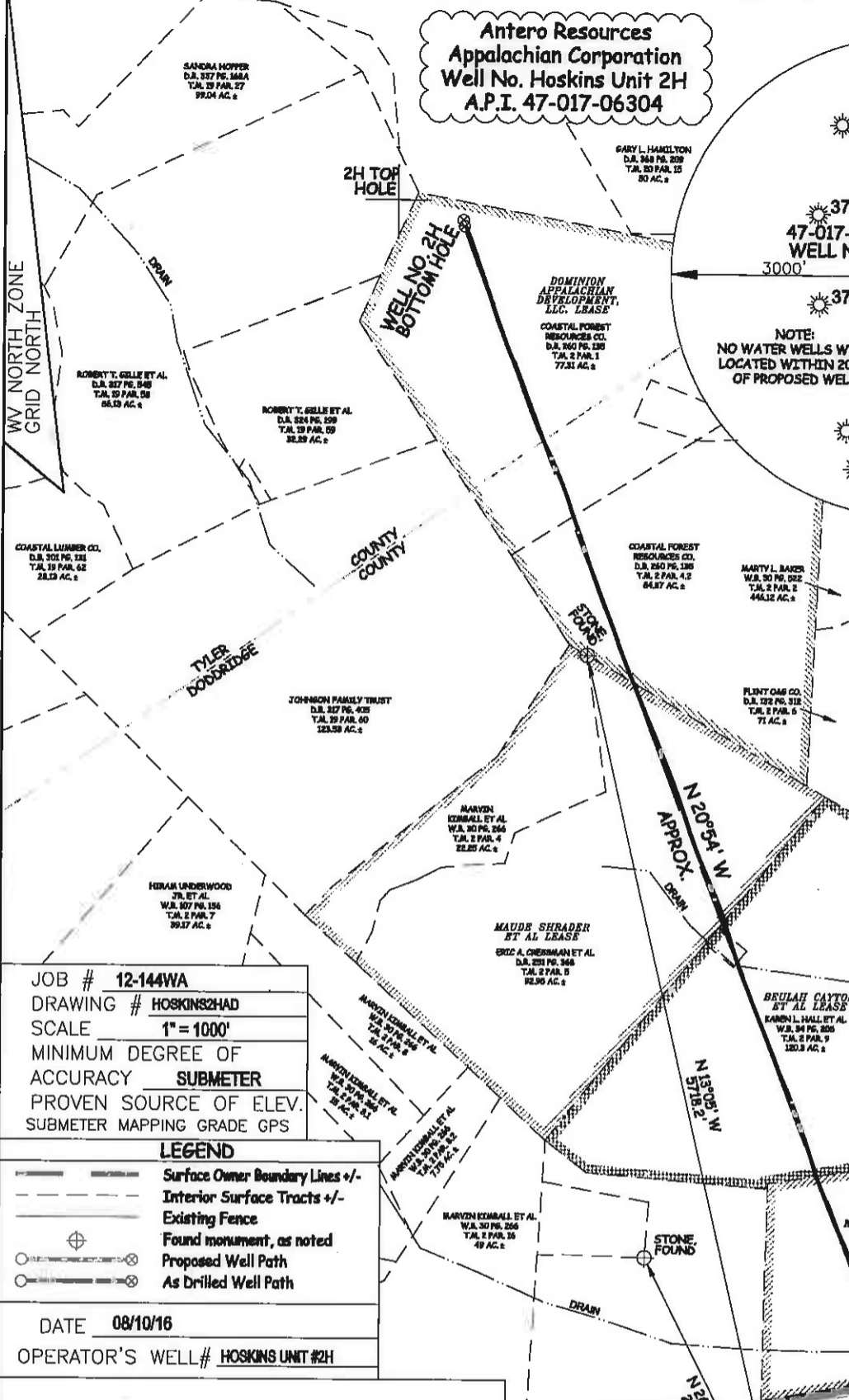
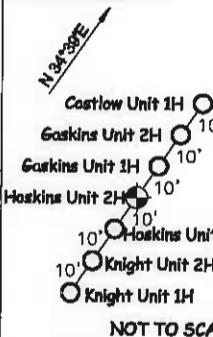


AS DRILLED DATA:
WELL 2H TOP HOLE INFORMATION:
N: 318,458ft E: 1,648,374ft
LAT: 39°22'03.62" LON: 80°44'37.50"
BOTTOM HOLE INFORMATION:
N: 326,739ft E: 1,646,275ft
LAT: 39°23'25.17" LON: 80°45'05.69"
WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIANGLE GEOTECH 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 2H TOP HOLE INFORMATION:
N: 4,357,619m E: 522,089m
BOTTOM HOLE INFORMATION:
N: 4,360,132m E: 521,407m

- NOTES**
- 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.
 - TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLESHERRY SURVEYS, INC.
 - AS DRILLED DATA WAS PROVIDED BY ANTERO RESOURCES CORPORATION.
 - 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.
 - WLS IS BY NO MEANS RESPONSIBLE FOR ANY ERRORS OR INACCURACIES WITH THE DATA AND INFORMATION THAT HAS BEEN PROVIDED.

PAD LAYOUT



JOB # 12-144WA
DRAWING # HOSKINS2HAD
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

DATE 08/10/16
OPERATOR'S WELL# HOSKINS UNIT #2H



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 DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS
API WELL # 47 - 017 - 06304
WELL TYPE: OIL ___ GAS LIQUID INJECTION ___ WASTE DISPOSAL ___
(IF "GAS") PRODUCTION ___ STORAGE ___ DEEP ___ SHALLOW
LOCATION: ELEVATION ORIG 1,171' - AS BUILT 1,157' WATERSHED McELROY CREEK
QUADRANGLE SMITHBURG 7.5 (TH) SHIPLEY 7.5 (BH) DISTRICT GRANT COUNTY DODDRIDGE
SURFACE OWNER KENNETH E. HAMILTON ET AL ACREAGE 90.35 ACRES +/-
OIL & GAS ROYALTY OWNER SILAS ASH; KENNETH HAMILTON ET AL; BRULIAH CAYTON ET AL; MAUDE SHRADER ET AL; DOMINION APPALACHIAN DEVELOPMENT LLC
LEASE ACREAGE 120 ACRES±; 80 ACRES±; 123.5 ACRES±; 114.5 ACRES±; 187.29 ACRES±

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 ___
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,975' TVD 15,863' MD
WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER
ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD
FORM WW-6 DENVER, CO 80202 CHARLESTON, WV 25313

10/28/2016

COUNTY NAME PERMIT