

APPROVED

WR-35
Rev. 8/23/13

NAME: John C. M. Page of

DATE 1/3/18

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Office of Oil and Gas

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

NOV 30 2017

WV Department of
Environmental Protection

API 47-017-06708 County Doddridge District Central
Quad Oxford 7.5' Pad Name James Webb Pad Field/Pool Name ----
Farm name James E. Webb Well Number King 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 4343262m Easting 510932m
Landing Point of Curve Northing 4343244.041m Easting 510523.010m
Bottom Hole Northing 4346193m Easting 509128m

Elevation (ft) 991' 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 03/26/2015 Date drilling commenced 09/04/2015 Date drilling ceased 09/21/2016
Date completion activities began 12/23/2016 Date completion activities ceased 08/02/2017
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 62', 173' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1145' Void(s) encountered (Y/N) depths No
Coal depth(s) ft 1552', 1632' Cavern(s) encountered (Y/N) depths No
Is coal being mined in area (Y/N) No

Reviewed by: _____

01/05/2018

API 47-017 - 06708 Farm name James E. Webb Well number King 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"	65'	New	106.5#, J-55	N/A	Y
Surface	17-1/2"	13-3/8"	457'	New	48#, H-40	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2603'	New	36#, J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	17943'	New	23#, P-110	N/A	Y
Tubing		2-3/8"	6831'		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 ²)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	60 sx	15.6	1.18	71	0'	8 Hrs.
Surface	Class A	540 sx	15.6	1.19	643	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1016 sx	15.6	1.18	1199	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	804 sx (Lead) 1373 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.84 (Tail)	3684	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 17943' MD, 6370' TVD (BHL) & 6512' TVD (Deepest Point Drilled) Loggers TD (ft) 17930' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5800'

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- 017 - 06708 Farm name James E. Webb Well number King 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								

Please insert additional pages as applicable.

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	6467' (TOP) TVD	6991' (TOP) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3000 psi Bottom Hole --- psi DURATION OF TEST --- hrs

OPEN FLOW Gas 11992 mcfpd Oil 88 bpd NGL --- bpd Water 1252 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**

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Please insert additional pages as applicable.

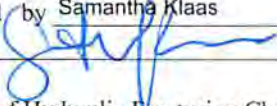
Drilling Contractor Patterson – UTI Drilling Company LLC
Address 207 Carlton Drive City Eighty Four State PA Zip 15330

Logging Company Allied Horizontal Wireline Services
Address 381 Colonial Manor Road 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 US 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 11/29/2017

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	12/23/2016	17636	17805	60	Marcellus
2	1/10/2017	17435	17604	60	Marcellus
3	1/10/2017	17234	17404	60	Marcellus
4	1/10/2017	17034	17203	60	Marcellus
5	1/11/2017	16833	17002	60	Marcellus
6	1/11/2017	16632	16802	60	Marcellus
7	1/11/2017	16432	16601	60	Marcellus
8	1/11/2017	16231	16400	60	Marcellus
9	1/12/2017	16030	16200	60	Marcellus
10	5/20/2017	15830	15999	60	Marcellus
11	5/20/2017	15629	15798	60	Marcellus
12	6/16/2017	15428	15598	60	Marcellus
13	6/16/2017	15228	15397	60	Marcellus
14	6/16/2017	15027	15196	60	Marcellus
15	6/17/2017	14826	14996	60	Marcellus
16	6/17/2017	14626	14795	60	Marcellus
17	6/17/2017	14425	14594	60	Marcellus
18	6/18/2017	14224	14394	60	Marcellus
19	6/18/2017	14024	14193	60	Marcellus
20	6/18/2017	13823	13992	60	Marcellus
21	6/18/2017	13623	13792	60	Marcellus
22	6/19/2017	13422	13591	60	Marcellus
23	6/19/2017	13221	13390	60	Marcellus
24	6/19/2017	13021	13190	60	Marcellus
25	6/19/2017	12820	12989	60	Marcellus
26	6/20/2017	12619	12788	60	Marcellus
27	6/20/2017	12419	12588	60	Marcellus
28	6/20/2017	12218	12387	60	Marcellus
29	6/20/2017	12017	12186	60	Marcellus
30	6/21/2017	11817	11986	60	Marcellus
31	6/21/2017	11616	11785	60	Marcellus
32	6/21/2017	11415	11584	60	Marcellus
33	6/21/2017	11215	11384	60	Marcellus
34	6/22/2017	11014	11183	60	Marcellus
35	6/22/2017	10813	10982	60	Marcellus
36	6/22/2017	10613	10782	60	Marcellus
37	6/23/2017	10412	10581	60	Marcellus
38	6/23/2017	10211	10380	60	Marcellus
39	6/23/2017	10011	10180	60	Marcellus
40	6/23/2017	9810	9979	60	Marcellus
41	6/24/2017	9609	9778	60	Marcellus
42	6/24/2017	9409	9578	60	Marcellus
43	6/24/2017	9208	9377	60	Marcellus
44	6/24/2017	9007	9176	60	Marcellus
45	6/25/2017	8807	8976	60	Marcellus
46	6/25/2017	8606	8775	60	Marcellus
47	6/25/2017	8405	8574	60	Marcellus
48	6/25/2017	8205	8374	60	Marcellus
49	6/25/2017	8004	8173	60	Marcellus
50	6/26/2017	7803	7972	60	Marcellus
51	6/26/2017	7603	7772	60	Marcellus
52	6/26/2017	7402	7571	60	Marcellus
53	6/26/2017	7201	7370	60	Marcellus
54	6/27/2017	7001	7170	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	1/9/2017	69.8	7596	6060	4063	408520	9377	N/A
2	1/10/2017	72.8	7944	5667	4621	408800	11338	N/A
3	1/10/2017	70.2	7575	5427	4976	409800	9563	N/A
4	1/10/2017	69.2	8290	5622	5384	393300	13087	N/A
5	1/11/2017	78.2	8114	5440	5596	408700	9490	N/A
6	1/11/2017	71.4	7638	5516	4893	409700	10541	N/A
7	1/11/2017	69.3	7726	5536	5253	409700	9448	N/A
8	1/11/2017	75.4	8262	5545	5163	373450	10750	N/A
9	1/12/2017	75.5	7946	5481	3297	409150	9439	N/A
10	5/20/2017	75.3	7857	6423	3387	408900	10750	N/A
11	5/20/2017	57.1	8425	5472	3426	409200	11576	N/A
12	6/16/2017	74.2	7776	5461	5153	408700	9541	N/A
13	6/16/2017	72.5	7684	5536	5196	408300	10669	N/A
14	6/16/2017	74.6	7687	5543	5139	406700	11309	N/A
15	6/17/2017	71.1	7661	5686	4653	407400	9104	N/A
16	6/17/2017	71.1	7734	5300	5625	407000	10232	N/A
17	6/17/2017	73.9	7740	5511	5611	407300	9132	N/A
18	6/18/2017	72.9	7553	5322	5189	409000	9074	N/A
19	6/18/2017	71.9	7785	5447	5322	409200	9083	N/A
20	6/18/2017	71.4	7811	6237	5175	408300	9111	N/A
21	6/18/2017	73.1	7674	5541	4950	407900	9097	N/A
22	6/19/2017	73.5	7437	5569	5059	408800	9056	N/A
23	6/19/2017	73.4	7451	5540	3730	407100	8932	N/A
24	6/19/2017	73.3	7417	4742	3730	406900	8975	N/A
25	6/19/2017	73.3	7368	6920	3852	408200	11587	N/A
26	6/20/2017	73.1	7494	5060	4131	406700	10422	N/A
27	6/20/2017	70.4	7867	6069	3819	407400	8898	N/A
28	6/20/2017	71.5	8008	5761	4009	406400	11037	N/A
29	6/20/2017	69.9	7588	6520	4034	407700	8929	N/A
30	6/21/2017	65.9	7825	8054	4091	407600	8920	N/A
31	6/21/2017	70.5	7501	6144	4145	406700	8866	N/A
32	6/21/2017	67.3	7433	6176	5046	407200	10875	N/A
33	6/21/2017	58.6	7793	6145	3573	407500	8979	N/A
34	6/22/2017	70.1	7514	6391	4160	408900	8885	N/A
35	6/22/2017	69.0	7747	5630	5111	408900	10999	N/A
36	6/22/2017	66.3	7578	5636	4721	300000	8689	N/A
37	6/23/2017	64.7	7193	5511	3541	409800	8814	N/A
38	6/23/2017	68.4	7419	5225	4163	409500	8808	N/A
39	6/23/2017	69.2	7507	5196	4839	390600	8756	N/A
40	6/23/2017	66.7	6867	5320	3895	410000	9174	N/A
41	6/24/2017	65.2	7030	5450	4002	359700	9660	N/A
42	6/24/2017	67.1	7879	5221	3945	408100	10486	N/A
43	6/24/2017	69.4	7433	5368	5354	409600	9903	N/A
44	6/24/2017	68.4	6965	5230	4953	409400	8756	N/A
45	6/25/2017	68.2	6854	5515	4056	409300	8746	N/A
46	6/25/2017	70.5	7213	5397	3551	409400	8736	N/A
47	6/25/2017	73.8	6496	4892	2646	408300	9695	N/A
48	6/25/2017	71.5	6102	3165	2850	407600	8722	N/A
49	6/25/2017	68.9	5890	2595	3129	407700	8720	N/A
50	6/26/2017	69.0	6025	3726	3937	406300	8722	N/A
51	6/26/2017	75.1	6092	2975	3308	406900	8694	N/A
52	6/26/2017	74.3	6295	3576	4123	407800	8869	N/A
53	6/26/2017	66.0	6875	4815	4810	298000	9407	N/A
54	6/27/2017	66.9	6434	5139	3512	407500	8710	N/A
AVG=		70.4	7,427	5,416	4,368	21,710,520	519,138	TOTAL

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API 47-017-06708 Farm Name James E. Webb Well Number King Unit 1H

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	62'	N/A	62'	N/A
Fresh Water	173'	N/A	173'	N/A
Siltstone	est. 0	177	est. 0	177
Sandstone	est. 177	237	est. 177	237
Siltstone	est. 237	567	est. 237	567
Sandstone	est. 567	1552	est. 567	1552
Coal	est. 1552	1557	est. 1552	1557
Shale	est. 1557	1587	est. 1557	1587
Sandstone	est. 1587	1632	est. 1587	1632
Coal	est. 1632	1634	est. 1632	1634
Sandstone	est. 1634	2045	est. 1634	2046
Big Lime	2045	2131	2046	2132
Big Injun	2131	2440	2132	2441
Gantz Sand	2440	2686	2441	2687
Fifty Foot Sandstone	2686	2763	2687	2764
Gordon	2763	3080	2764	3081
Fifth Sandstone	3080	3105	3081	3107
Bayard	3105	3433	3107	3434
Warren	3433	3797	3434	3798
Speechley	3797	4541	3798	4542
Bradford	4541	4933	4542	4935
Benson	4933	5199	4935	5200
Alexander	5199	5354	5200	5356
Elk	5354	5804	5356	5806
Rhinestreet	5804	6125	5806	6307
Sycamore	6127	6293	6307	6589
Middlesex	6293	6411	6589	6825
Burkett	6411	6440	6825	6899
Tully	6440	6467	6899	6991
Marcellus	6467	NA	6991	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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API WELL # 47 - 06708
STATE COUNTY PERMIT
WEST VIRGINIA 017 - 06708

PROFESSIONAL SURVEYOR
STATE OF WEST VIRGINIA
No. 2202
LICENSED
DOUGLAS R. ROWE



WELL TYPE: OIL GAS X LIQUID INJECTION WASTE DISPOSAL (IF "GAS") PRODUCTION X STORAGE DEEP SHALLOW X
LOCATION: ELEVATION 991.4' WATERSHED NORTH FORK HUGHES RIVER
SURFACE OWNER JAMES E. WEBB
OIL & GAS ROYALTY OWNER CHARLEY WILSON ET UX, RALPH LEGGETT ET UX, H.B. WILLIAMS ET UX, L.L. MORRIS, LEASE ACRES: 91 ACRES, 75 ACRES, 307 ACRES, 409 ACRES, 131.5 ACRES, 30 ACRES, 201 ACRES, 30 ACRES, 130 ACRES
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL
TARGET FORMATION MARCELLUS
DESIGNATED AGENT DIANNA STAMPER CT CORPORATION SYSTEM
WELL OPERATOR ANTERO RESOURCES CORP. 1615 WYNNKOP STREET DENVER, CO 80202

JOB # 14-104WA
DRAWING # KINGHAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY
SUBMETER PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY OPERATOR'S WELL # KING UNIT #1H
DATE 11/07/17
DOUGLAS R. ROWE P.S. 2202

LEGEND
--- Surface Owner Boundary Lines +/-
--- Proposed Well Path
--- Drilled Well Path
--- (S) Drilled Well Path



LINE	BEARING	DISTANCE
L1	N 72°15' E	1424.3
L2	N 89°07' E	1608.6
L3	S 36°12' E	1107.5
L4	S 17°19' E	1023.9
L5	S 01°48' W	1030.8
L6	S 13°25' W	1398.1
L7	S 14°41' W	1308.9
L8	S 15°45' W	1051.0
L9	S 19°07' W	1434.9
L10	S 26°11' W	1392.7
L11	S 28°13' W	1000.5
L12	S 26°15' W	1517.4
L13	S 32°47' W	1749.1
L14	S 32°53' W	1608.5
L15	S 35°25' W	1789.2
L16	S 35°25' W	1789.2
L17	S 42°08' W	1693.0

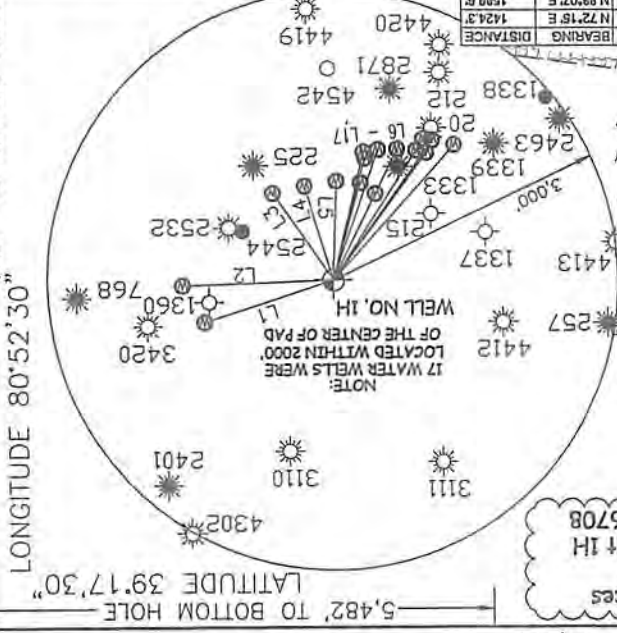
AS DRILLED DATA:
WELL #1 TOP HOLE INFORMATION:
N: 271.956ft E: 1.610.976ft
LAT: 39°14'18.65" LON: 80°52'24.59"

WELL #1 TOP HOLE INFORMATION:
N: 281.674ft E: 1.605.216ft
LAT: 39°15'55.82" LON: 80°53'39.70"

SYSTEM OF 1927 NORTH ZONE.
ZONE WAS DERIVED FROM
TRIMBLE GEOMET 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 #1 TOP HOLE INFORMATION:
N: 4343.262m E: 510.932m
BOTTOM HOLE INFORMATION:
N: 4346.193m E: 509.128m

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WV Department of Environmental Protection



PERMIT COUNTY NAME ACREAGE 04.89 ACRES +/-

LONGITUDE 80°52'30"
LONGITUDE 80°50'00"
LATITUDE 39°17'30"
LATITUDE 39°15'00"

4,184'
5,482' TO BOTTOM HOLE
9,731' TO BOTTOM HOLE
11,376'

LATITUDE 39°15'00"

11,376'

5,482' TO BOTTOM HOLE
LATITUDE 39°17'30"

LONGITUDE 80°52'30"

4,184'
9,731' TO BOTTOM HOLE
LONGITUDE 80°50'00"

Antero Resources Corporation Well No. King Unit 1H A.P.I. #47-017-06708

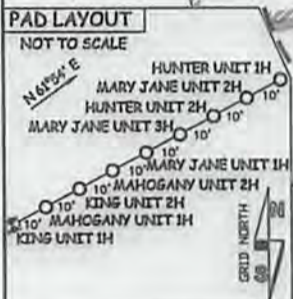
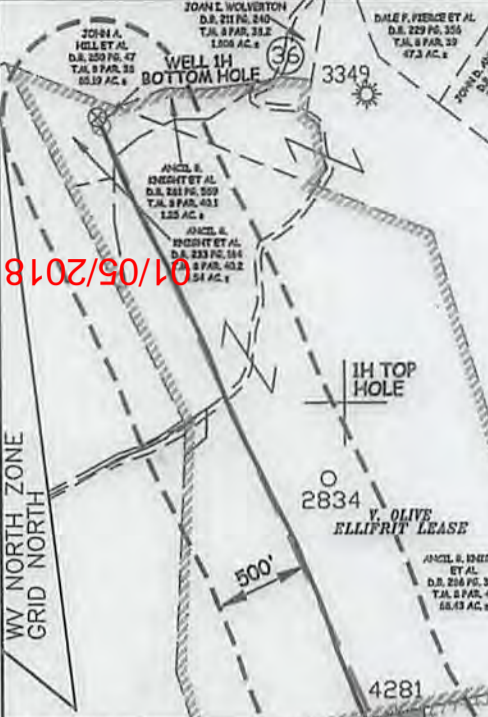
- NOTE**
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR EQUINE HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
 2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY 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.

NOTE:
17 WATER WELLS WERE LOCATED WITHIN 2000' OF THE CENTER OF THE PAD

LINE	BEARING	DISTANCE
L1	N 72°15' E	1424.9'
L2	N 88°07' E	1590.6'
L3	S 35°12' E	1107.5'
L4	S 17°10' E	1023.9'
L5	S 01°48' W	1030.8'
L6	S 13°26' W	1389.1'
L7	S 14°41' W	1309.9'
L8	S 15°45' W	1051.0'
L9	S 19°07' W	1434.9'
L10	S 24°11' W	1332.7'
L11	S 28°13' W	1000.9'
L12	S 28°18' W	1517.4'
L13	S 32°47' W	1748.1'
L14	S 32°53' W	1605.3'
L15	S 35°35' W	1785.2'
L16	S 38°23' W	1844.9'
L17	S 42°09' W	1895.9'

AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 271,956ft E: 1,610,976ft
LAT: 39°14'18.65" LON: 80°52'24.59"
BOTTOM HOLE INFORMATION:
N: 281,674ft E: 1,605,216ft
LAT: 39°15'53.82" LON: 80°53'39.70"
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: 4,343,262m E: 510,932m
BOTTOM HOLE INFORMATION:
N: 4,346,193m E: 509,128m



API WELL # 47 - 017 - 06708
STATE COUNTY PERMIT

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.

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 # 14-104WA
DRAWING # KING1HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS

LEGEND
- - - Surface Owner Boundary Lines +/-
- - - Interior Surface Tracts +/-
○ Proposed Well Path
⊙ As Drilled Well Path

DOUGLAS R. ROWE P.S. 2202

DATE 11/07/17
OPERATOR'S WELL# KING UNIT #1H

STATE OF WEST VIRGINIA DEPARTMENT 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 991.4' WATERSHED NORTH FORK HUGHES RIVER
QUADRANGLE OXFORD 7.5 (TOP HOLE) PENNSBORO 7.5 (BOTTOM HOLE) DISTRICT CENTRAL COUNTY DODDRIDGE

SURFACE OWNER JAMES E. WEBB ACREAGE 84.89 ACRES +/-
OIL & GAS ROYALTY OWNER CHARLEY WILSON ET UX; RALPH LEGGETT ET UX; H.B. WILLIAMS ET UX; I.L. MORRIS; LEASE ACREAGE 91 ACRES +/- 75 ACRES +/- 307 ACRES +/- 40.9 ACRES +/-
GERALDINE WILLARD; MELANIE KING; JAMES W. JOHNSON ET UX; ETTA ORDER ET VIR; MARY MAXINE WELCH; V. OLIVE ELLIFRIT 131.5 ACRES +/- 30 ACRES +/- 38.8 ACRES +/- 201 ACRES +/- 30 ACRES +/- 130 ACRES +/-
PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE OR STIMULATE ___
PLUG OFF OLD FORMATION ___ PERFORATE NEW FORMATION X OTHER PHYSICAL CHANGE IN WELL
(SPECIFY) AS DRILLED PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION MARCELLUS ESTIMATED DEPTH 6,370' TVD 17,943' 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

COUNTY NAME PERMIT