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JUN 15 2015

WR-35  
Rev. 8/23/13 WV GEOLOGICAL SURVEY  
MORGANTOWN, WV

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

API 47 - 017 - 06119 County Doddridge District McClellan  
Quad Folsom 7.5' Pad Name R. Swiger Pad Field/Pool Name ---  
Farm name Rendal J. Dotson, et al Well Number Statler 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 4,359,756m Easting 536,316m  
Landing Point of Curve Northing 4,359,936.01m Easting 536,275.40m  
Bottom Hole Northing 4,361,803m Easting 535,467m

Elevation (ft) 880' 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 8/28/2012 Date drilling commenced 6/9/2013 Date drilling ceased 12/9/2013  
Date completion activities began 2/15/2014 Date completion activities ceased 5/6/2014  
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 52', 130' Open mine(s) (Y/N) depths N  
Salt water depth(s) ft 762', 1085' Void(s) encountered (Y/N) depths N  
Coal depth(s) ft 640' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by: \_\_\_\_\_

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API 47-017 - 06119 Farm name Rendal J. Dotson, et al Well number Statler 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"	40'	New	94#/H-40	N/A	Y
Surface	17-1/2"	13-3/8"	381'	New	48#/J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2583'	New	36#/J-55	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	13,980'	New	20#/P-110	N/A	Y
Tubing		2-3/8"	7019'		4.7#/N-80	N/A	
Packer type and depth set		N/A					

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Class A	100 sx	15.6	1.18	38 Cu. Ft.	0'	8 hrs
Surface	Class A	471 sx	15.6	1.18	265 Cu. Ft.	0'	8 hrs
Coal							
Intermediate 1	Class A	952 sx	15.6	1.18	809 Cu. Ft.	0'	8 hrs
Intermediate 2							
Intermediate 3							
Production	Class H	965 sx (Lead), 1120 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.80 (Tail)	2726 Cu. Ft.	~500' into Intermediate Casing	8 hrs
Tubing							

Drillers TD (ft) 13,989' MD, 6949' TVD (BHL), 6959' TVD (Deepest Point Drilled) Loggers TD (ft) 13,989' MD  
Deepest formation penetrated Marcellus Plug back to (ft) N/A  
Plug back procedure N/A

Kick off depth (ft) 6414'

Check all wireline logs run  caliper  density  deviated/directional  induction  
 neutron  resistivity  gamma ray  temperature  
Well cored  Yes  No Conventional Sidewall Were cuttings collected  Yes  No

\*\* This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (R. Swiger South Unit 1H API# 47-017-05962). Please reference the wireline logs submitted with Form WR-35 for the R. Swiger South Unit 1H. A Cement Bond Log has been included with this submittal.

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 - 06119 Farm name Rendal J. Dotson, et al Well number Statler Unit 1H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6891' (Top) TVD	7032' (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 12,864 mcfpd Oil ---- bpd NGL ---- bpd Water 153 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 <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		

\*PLEASE SEE ATTACHED EXHIBIT 3

Please insert additional pages as applicable.

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

Logging Company Rush Wellsite Services  
Address 600 Alpha Drive City Canonsburg State PA Zip 15317

Cementing Company Allied Oil & Gas Services, LLC  
Address 1036 East Main Street City Bridgeport State WV Zip 26330

Stimulating Company Baker Hughes  
Address 837 Phillippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Natalie Komp Telephone 303-357-6820  
Signature Natalie Komp Title Permitting Agent Date 6/8/2015

API 47-017-06119 Farm Name Rendal J. Dotson, et al Well Number Statler Unit 1H

**EXHIBIT 1**

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	15-Feb-14	13,703	13901'	60	Marcellus
2	30-Mar-14	13,509	13672'	60	Marcellus
3	30-Mar-14	13,316	13479'	60	Marcellus
4	31-Mar-14	13,123	13286'	60	Marcellus
5	31-Mar-14	12,930	13093'	60	Marcellus
6	1-Apr-14	12,737	12900'	60	Marcellus
7	1-Apr-14	12,544	12707'	60	Marcellus
8	1-Apr-14	12,351	12514'	60	Marcellus
9	2-Apr-14	12,157	12320'	60	Marcellus
10	2-Apr-14	11,964	12127'	60	Marcellus
11	2-Apr-14	11,771	11934'	60	Marcellus
12	3-Apr-14	11,578	11741'	60	Marcellus
13	3-Apr-14	11,087	11256'	60	Marcellus
14	4-Apr-14	10,887	11056'	60	Marcellus
15	4-Apr-14	10,686	10855'	60	Marcellus
16	5-Apr-14	10,486	10655'	60	Marcellus
17	5-Apr-14	10,286	10455'	60	Marcellus
18	5-Apr-14	10,085	10254'	60	Marcellus
19	6-Apr-14	9,885	10054'	60	Marcellus
20	6-Apr-14	9,685	9854'	60	Marcellus
21	6-Apr-14	9,484	9653'	60	Marcellus
22	7-Apr-14	9,284	9453'	60	Marcellus
23	7-Apr-14	9,084	9253'	60	Marcellus
24	8-Apr-14	8,883	9052'	60	Marcellus
25	8-Apr-14	8,683	8852'	60	Marcellus
26	8-Apr-14	8,483	8652'	60	Marcellus
27	9-Apr-14	8,282	8451'	60	Marcellus
28	9-Apr-14	8,082	8251'	60	Marcellus
29	9-Apr-14	7,882	8051'	60	Marcellus
30	10-Apr-14	7,681	7850'	60	Marcellus
31	10-Apr-14	7,481	7650'	60	Marcellus
32	10-Apr-14	7,281	7450'	60	Marcellus
33	11-Apr-14	7,080	7249'	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	29-Mar-14	77.0	8,106	6,422	6,082	242,007	6,580	N/A
2	30-Mar-14	76.0	7,943	6,196	6,157	244,899	6,341	N/A
3	30-Mar-14	76.0	7,779	6,162	6,167	245,023	6,355	N/A
4	31-Mar-14	77.0	7,642	6,397	6,050	244,251	6,343	N/A
5	31-Mar-14	72.0	7,435	6,002	5,902	245,455	6,296	N/A
6	1-Apr-14	75.0	7,650	6,443	6,034	209,824	6,720	N/A
7	1-Apr-14	75.0	7,927	6,252	5,439	249,420	6,284	N/A
8	1-Apr-14	80.0	7,784	6,240	6,233	240,504	6,277	N/A
9	2-Apr-14	75.0	7,621	6,521	6,298	237,064	6,093	N/A
10	2-Apr-14	78.0	7,523	6,030	6,086	247,722	6,296	N/A
11	2-Apr-14	83.0	7,615	6,237	6,079	245,570	6,186	N/A
12	3-Apr-14	83.0	7,543	6,547	5,650	248,030	6,196	N/A
13	3-Apr-14	77.0	7,836	6,283	5,457	246,264	6,213	N/A
14	4-Apr-14	84.0	7,809	6,541	5,690	247,102	6,205	N/A
15	4-Apr-14	77.0	7,523	5,176	5,341	231,832	6,230	N/A
16	5-Apr-14	84.0	7,804	6,213	5,885	246,565	6,129	N/A
17	5-Apr-14	76.0	7,546	6,120	5,719	197,383	6,566	N/A
18	5-Apr-14	83.0	7,670	5,912	5,671	248,590	6,139	N/A
19	6-Apr-14	83.0	7,730	6,213	5,409	244,084	6,052	N/A
20	6-Apr-14	77.0	7,564	6,305	5,854	243,968	6,083	N/A
21	6-Apr-14	83.0	8,086	6,103	6,303	238,143	6,003	N/A
22	7-Apr-14	78.0	7,390	6,284	5,694	248,277	6,071	N/A
23	7-Apr-14	83.0	7,440	6,066	5,735	171,200	6,002	N/A
24	8-Apr-14	73.0	8,107	5,950	5,408	81,178	6,574	N/A
25	8-Apr-14	76.0	7,073	5,715	5,920	242,807	5,988	N/A
26	8-Apr-14	80.0	7,200	5,958	5,520	247,940	5,974	N/A
27	9-Apr-14	81.0	7,352	6,103	5,759	248,191	5,957	N/A
28	9-Apr-14	80.0	7,187	5,959	5,900	244,923	5,956	N/A
29	9-Apr-14	79.0	6,993	5,897	5,315	249,308	5,992	N/A
30	10-Apr-14	78.0	7,271	6,011	5,491	246,589	6,037	N/A
31	10-Apr-14	79.0	7,092	6,085	5,659	246,055	5,915	N/A
32	10-Apr-14	79.0	7,457	6,165	5,739	248,443	6,054	N/A
33	11-Apr-14	79.0	7,130	6,512	5,349	248,530	5,885	N/A
	AVG=	<b>79.0</b>	<b>7,570.5</b>	<b>6,152.1</b>	<b>5,787.73</b>	<b>7,767,141</b>	<b>203,992</b>	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	52	N/A	52	N/A
Fresh Water	130	N/A	130	N/A
Sand/Shale	0	60	0	60
Sand	est. 60	87	est. 60	87
Sand/Shale	est. 87	134	est. 87	134
Shale	est. 134	184	est. 134	184
Sand/Shale	est. 184	367	est. 184	367
Sand	est. 367	490	est. 367	490
Shale	est. 490	640	est. 490	640
Coal	est. 640	725	est. 640	725
Sand/Shale	est. 725	1,210	est. 725	1,210
Sand	est. 1210	1,280	est. 1210	1,280
Shale	est. 1280	1,656	est. 1280	1,656
Limestone	est. 1656	1,675	est. 1656	1,675
Sand/Shale	est. 1675	1,731	est. 1675	1,732
Big Lime	1,731	1,863	1,732	1,865
Big Injun	1,863	2,137	1,865	2,141
Gantz Sand	2,137	2,314	2,141	2,319
Fifty Foot Sandstone	2,314	2,530	2,319	2,535
Gordon	2,530	2,874	2,535	2,879
Fifth Sandstone	2,874	2,918	2,879	2,923
Bayard	2,918	3,227	2,923	3,232
Warren	3,227	3,462	3,232	3,467
Speechley	3,462	3,887	3,467	3,892
Baltown	3,887	4,407	3,892	4,412
Bradford	4,407	4,888	4,412	4,893
Benson	4,888	5,161	4,893	5,167
Alexander	5,161	5,358	5,167	5,364
Elk	5,358	5,966	5,364	5,972
Rhinestreet	5,966	6,393	5,972	6,399
Sycamore	6,393	6,593	6,399	6,606
Middlesex	6,593	6,751	6,606	6,790
Burkett	6,751	6,773	6,790	6,820
Tully	6,773	6,891	6,820	7,032
Marcellus	6,891	NA	7,032	NA
Onondaga**	6,833	NA	11,248	NA

\*Please note Antero determines shallow 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.

\*\*Antero drilled a small portion of this well less than 5 feet into the Onondaga formation from approximately 11,276'-11,558' in the lateral but this section was not perforated or completed.

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# Hydraulic Fracturing Fluid Product Component Information Disclosure



Job Start Date:	3/29/2014
Job End Date:	4/11/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06119-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Stallier Unit 1H
Longitude:	-80.57849400
Latitude:	39.38643300
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,950
Total Base Water Volume (gal):	8,893,374
Total Base Non Water Volume:	0

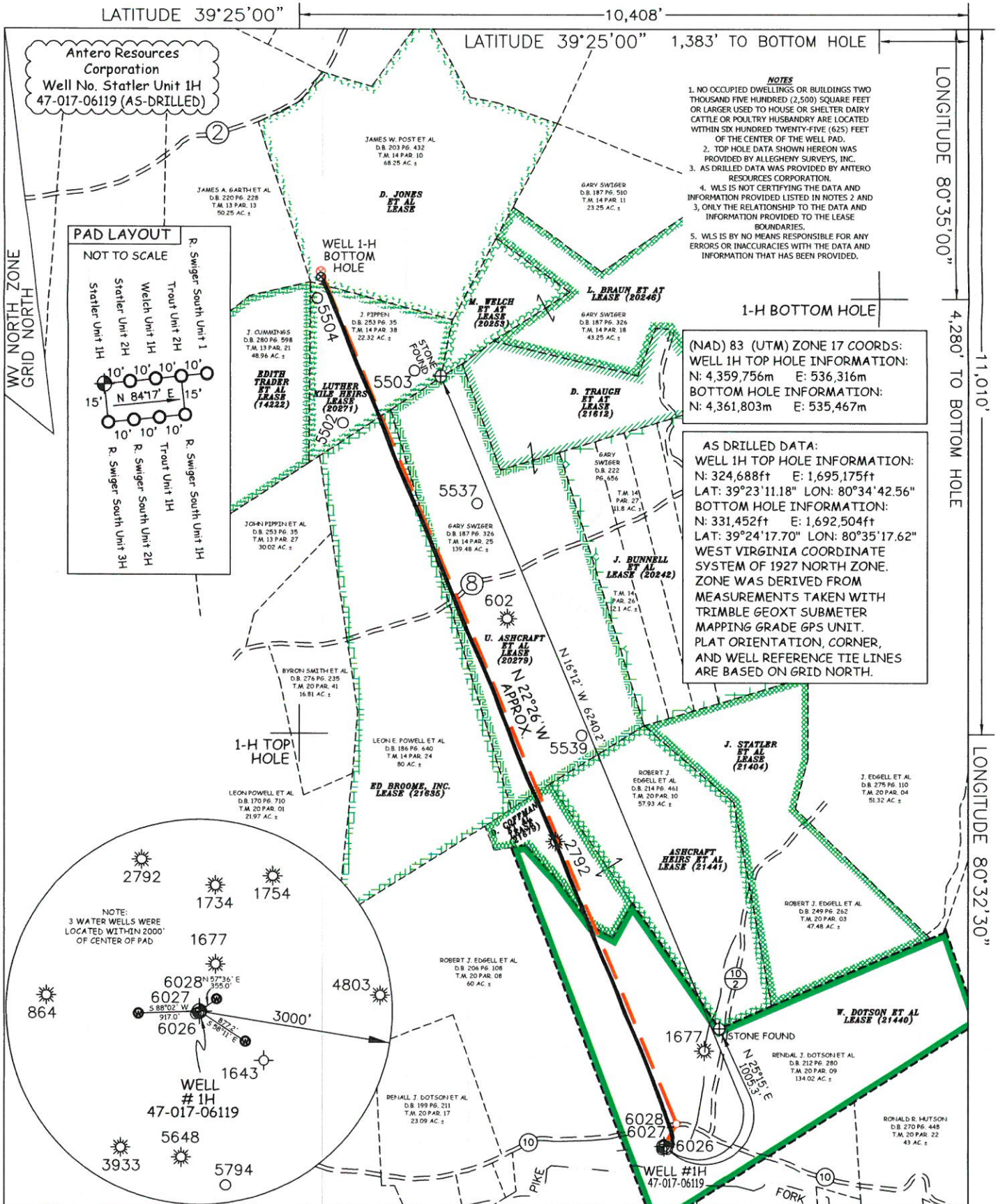
## Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Water	Operator	Carrier	Water	7732-18-5	100.00000	89.55956	
Sand, White, 40/70	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		6.08757	
Sand, White, 20/40	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		3.23109	
Sand, White, 100 mesh	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.62787	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.22479	SmartCare Product
GW-3LDF	Baker Hughes	Gelling Agent	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.08888	SmartCare Product
FRW-18	Baker Hughes	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.05884	SmartCare Product
Scalotrol 720	Baker Hughes	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.01708	SmartCare Product





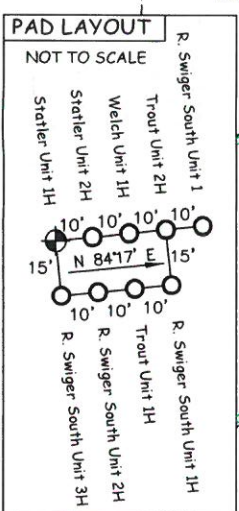




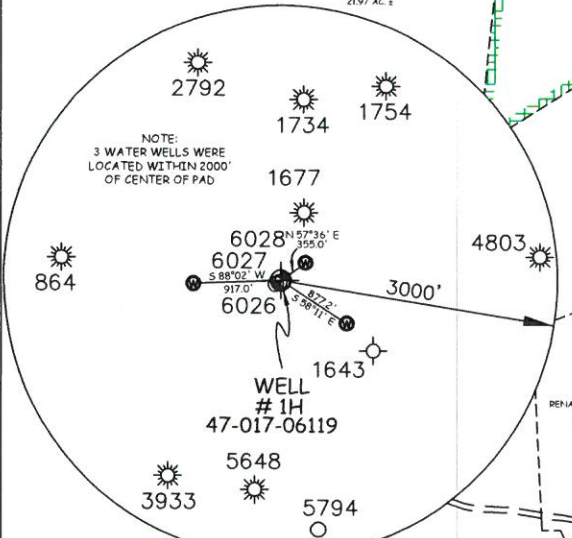
- NOTES**
1. NO OCCUPIED DWELLINGS OR BUILDINGS TWO THOUSAND FIVE HUNDRED (2,500) SQUARE FEET OR LARGER USED TO HOUSE OR SHELTER DAIRY CATTLE OR POLYTRY HUSBANDRY ARE LOCATED WITHIN SIX HUNDRED TWENTY-FIVE (625) FEET OF THE CENTER OF THE WELL PAD.
  2. TOP HOLE DATA SHOWN HEREON WAS PROVIDED BY ALLEGHENY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

(NAD) 83 (UTM) ZONE 17 COORDS:  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 4,359,756m E: 536,316m  
**BOTTOM HOLE INFORMATION:**  
 N: 4,361,803m E: 535,467m

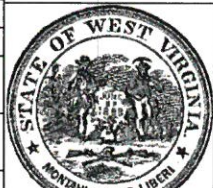
**AS DRILLED DATA:**  
**WELL 1H TOP HOLE INFORMATION:**  
 N: 324,688ft E: 1,695,175ft  
 LAT: 39°23'11.18" LON: 80°34'42.56"  
**BOTTOM HOLE INFORMATION:**  
 N: 331,452ft E: 1,692,504ft  
 LAT: 39°24'17.70" LON: 80°35'17.62"  
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.



WV NORTH ZONE  
 GRID NORTH



JOB # 12-040WA  
 DRAWING # STATLERUNIT1HAD  
 SCALE 1" = 1000'  
 MINIMUM DEGREE OF ACCURACY SUBMETER  
 PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS

WILLOW LAND SURVEYING PLLC  
 220 MASONIC AVE PENNSBORO WEST VIRGINIA 26415

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

DATE 04/17/15  
 OPERATOR'S WELL # STATLER UNIT #1H  
 API WELL # 47 - 017 - 06119  
 STATE COUNTY PERMIT

STATE OF WEST VIRGINIA DEPARTMENT OF ENERGY DIVISION OF OIL AND GAS  
 WELL TYPE: OIL \_\_\_ GAS  LIQUID INJECTION \_\_\_ WASTE DISPOSAL \_\_\_  
 (IF "GAS") PRODUCTION  STORAGE \_\_\_ DEEP \_\_\_ SHALLOW   
 LOCATION: ELEVATION 883' ORIGINAL - 880' AS DRILLED WATERSHED McELROY CREEK  
 QUADRANGLE FOLSOM 7.5' DISTRICT MCCLELLAN COUNTY DODDRIDGE  
 SURFACE OWNER RENDAL J. DOTSON ET AL ACREAGE 134.02 ACRES +/-  
 OIL & GAS ROYALTY OWNER W. DOTSON ET AL (21440); O. COFFMAN ET AL (21679); U. ASHCRAFT ET AL (20279); ED BROOME, INC. (21635); LUTHER KILE HEIRS (20271); D. JONES ET AL LEASE ACREAGE 106 ACRES+; 12 ACRES+; 82 ACRES+; 80 ACRES+; 24 ACRES+; 68.25 ACRES+  
 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 6,948' TVD 13,989' MD  
 WELL OPERATOR ANTERO RESOURCES CORP. DESIGNATED AGENT DIANNA STAMPER  
 ADDRESS 1615 WYNKOOP STREET ADDRESS 5400 D BIG TYLER ROAD  
 DENVER, CO 80202 CHARLESTON, WV 25313

COUNTY NAME  
 PERMIT