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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 - 06148 County Doddridge District McClellan
Quad Folsom 7.5' Pad Name Swiger Pad Field/Pool Name _____
Farm name Dotson, Rendal J. et al Well Number Welch 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 536,322m
Landing Point of Curve Northing 4,360,041.55m Easting 536,708.79m
Bottom Hole Northing 4,362,362m Easting 535,690m

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 12/04/2012 Date drilling commenced 06/08/2013 Date drilling ceased 11/06/2013
Date completion activities began 02/08/2014 Date completion activities ceased 04/20/2014
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 - 06148 Farm name Dotson, Rendal J. et al Well number Welch 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	48#/J-55	N/A	Y
Surface	17-1/2"	13-3/8"	401'	New	36#/J-55	N/A	Y
Coal							
Intermediate 1	12-1/4"	9-5/8"	2665'	New	36# & 61.1#/J-55 & HC-95	N/A	Y
Intermediate 2							
Intermediate 3							
Production	8-3/4"/8-1/2"	5-1/2"	15,879'	New	20#/P-110	N/A	Y
Tubing		2-3/8"	7415'	New	4.7#/N-80	N/A	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	196 sx	15.6	1.18	38 Cu. Ft.	0'	8 hrs
Surface	Class A	480 sx	15.6	1.18	279 Cu. Ft.	0'	8 hrs
Coal							
Intermediate 1	Class A	984 sx	15.6	1.18	835 Cu. Ft.	0'	8 hrs
Intermediate 2							
Intermediate 3							
Production	Class H	943 sx (Lead), 1,419 sx (Tail)	13.5 (Lead), 15.2 (Tail)	1.44 (Lead), 1.80 (Tail)	3142 Cu. Ft.	~500' into Intermediate Casing	8 hrs
Tubing							

Drillers TD (ft) 15,879' MD, 6948' TVD (BHL), 6960' TVD (Deepest Point Drilled) Loggers TD (ft) 15,833' MD
 Deepest formation penetrated Marcellus Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 6,744'

** 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.

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 _____

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Farm name Dotson, Rendal J. et al

Well number Welch 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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PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6900' (Top) TVD	7384' (Top) MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3,800 psi Bottom Hole _____ psi DURATION OF TEST ___ hrs

OPEN FLOW Gas 11,280 mcfpd Oil _____ bpd NGL _____ bpd Water 707 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	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 Philippi Pike City Clarksburg State WV Zip 26301

Please insert additional pages as applicable.

Completed by Megan Darling Telephone 303-357-6820
Signature *Megan C. Darling* Title Permitting Agent Date 06/10/2015

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API 47-017-06148 Farm Name Dotson, Rendal J. et al Well Number Welch Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	8-Feb-14	15,600	15,791	60	Marcellus
2	25-Feb-14	15,401	15,569	60	Marcellus
3	26-Feb-14	15,202	15,370	60	Marcellus
4	26-Feb-14	15,003	15,171	60	Marcellus
5	26-Feb-14	14,803	14,971	60	Marcellus
6	27-Feb-14	14,604	14,772	60	Marcellus
7	27-Feb-14	14,405	14,573	60	Marcellus
8	27-Feb-14	14,206	14,374	60	Marcellus
9	28-Feb-14	14,006	14,174	60	Marcellus
10	28-Feb-14	13,807	13,975	60	Marcellus
11	1-Mar-14	13,608	13,776	60	Marcellus
12	1-Mar-14	13,409	13,577	60	Marcellus
13	1-Mar-14	13,209	13,377	60	Marcellus
14	2-Mar-14	13,010	13,178	60	Marcellus
15	2-Mar-14	12,811	12,979	60	Marcellus
16	2-Mar-14	12,612	12,780	60	Marcellus
17	3-Mar-14	12,413	12,581	60	Marcellus
18	4-Mar-14	12,213	12,381	60	Marcellus
19	4-Mar-14	12,014	12,182	60	Marcellus
20	5-Mar-14	11,815	11,983	60	Marcellus
21	5-Mar-14	11,616	11,784	60	Marcellus
22	6-Mar-14	11,416	11,584	60	Marcellus
23	6-Mar-14	11,217	11,385	60	Marcellus
24	6-Mar-14	11,018	11,186	60	Marcellus
25	7-Mar-14	10,819	10,987	60	Marcellus
26	7-Mar-14	10,619	10,788	60	Marcellus
27	7-Mar-14	10,420	10,588	60	Marcellus
28	8-Mar-14	10,221	10,389	60	Marcellus
29	8-Mar-14	10,022	10,190	60	Marcellus
30	8-Mar-14	9,823	9,991	60	Marcellus
31	8-Mar-14	9,623	9,791	60	Marcellus
32	8-Mar-14	9,424	9,592	60	Marcellus
33	9-Mar-14	9,225	9,393	60	Marcellus
34	9-Mar-14	9,026	9,194	60	Marcellus
35	9-Mar-14	8,826	8,994	60	Marcellus
36	10-Mar-14	8,627	8,795	60	Marcellus
37	10-Mar-14	8,428	8,596	60	Marcellus
38	10-Mar-14	8,229	8,397	60	Marcellus
39	10-Mar-14	8,029	8,198	60	Marcellus
40	11-Mar-14	7,830	7,998	60	Marcellus
41	11-Mar-14	7,631	7,799	60	Marcellus
42	12-Mar-14	7,432	7,600	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	24-Feb-14	68.0	7,256	N/A	5,733	171,572	6,705	N/A
2	25-Feb-14	74.0	7,900	6,126	5,971	206,567	6,061	N/A
3	26-Feb-14	66.0	8,023	6,385	5,847	163,292	6,376	N/A
4	26-Feb-14	75.0	7,958	6,180	6,093	233,369	6,235	N/A
5	26-Feb-14	74.0	8,200	6,106	6,283	227,075	6,171	N/A
6	27-Feb-14	72.0	7,835	6,129	6,019	188,411	6,578	N/A
7	27-Feb-14	69.0	7,690	6,160	6,067	171,965	6,519	N/A
8	27-Feb-14	72.0	7,855	6,240	6,419	223,656	6,323	N/A
9	28-Feb-14	73.0	7,846	6,348	6,368	229,962	6,044	N/A
10	28-Feb-14	72.0	7,632	6,061	5,573	231,886	6,066	N/A
11	1-Mar-14	73.0	7,824	6,114	4,964	220,135	5,978	N/A
12	1-Mar-14	72.0	7,674	5,775	5,878	133,428	6,456	N/A
13	1-Mar-14	75.0	7,885	6,018	6,077	230,760	6,071	N/A
14	2-Mar-14	70.0	7,840	6,828	6,030	229,998	5,949	N/A
15	2-Mar-14	75.0	7,942	6,496	5,696	184,491	6,048	N/A
16	2-Mar-14	75.0	7,819	6,288	6,234	231,511	6,012	N/A
17	3-Mar-14	70.0	7,825	6,730	5,604	155,767	6,422	N/A
18	4-Mar-14	69.0	8,355	6,889	6,177	159,891	6,131	N/A
19	4-Mar-14	75.0	8,250	6,937	6,482	228,583	5,910	N/A
20	5-Mar-14	76.0	8,138	6,552	5,724	227,381	5,948	N/A
21	5-Mar-14	67.0	8,293	6,228	6,266	161,782	6,180	N/A
22	6-Mar-14	73.0	8,291	6,735	6,478	199,092	6,401	N/A
23	6-Mar-14	73.0	8,069	6,648	6,569	229,997	5,857	N/A
24	6-Mar-14	75.0	7,996	6,475	6,381	231,328	5,896	N/A
25	7-Mar-14	74.0	8,010	6,380	5,187	189,713	6,413	N/A
26	7-Mar-14	74.0	7,963	6,410	5,300	230,362	5,843	N/A
27	7-Mar-14	74.0	7,681	6,200	6,547	227,912	5,801	N/A
28	8-Mar-14	73.0	8,086	6,149	5,850	174,769	6,056	N/A
29	8-Mar-14	70.0	8,055	6,184	6,162	112,674	5,164	N/A
30	8-Mar-14	75.0	7,650	6,074	5,760	228,589	5,810	N/A
31	8-Mar-14	78.0	7,511	6,244	5,727	229,123	5,721	N/A
32	8-Mar-14	76.0	7,671	6,029	6,507	189,075	5,221	N/A
33	9-Mar-14	71.0	7,964	6,481	6,554	212,653	5,536	N/A
34	9-Mar-14	78.0	7,407	6,227	5,799	227,850	5,683	N/A
35	9-Mar-14	80.0	7,393	6,273	5,960	225,656	5,662	N/A
36	10-Mar-14	77.0	7,289	6,203	6,077	229,615	5,688	N/A
37	10-Mar-14	78.0	7,365	6,173	5,716	229,544	5,716	N/A
38	10-Mar-14	79.0	7,220	6,334	5,798	228,789	5,670	N/A
39	10-Mar-14	78.0	7,380	6,085	6,138	228,483	5,671	N/A
40	11-Mar-14	79.0	7,337	6,307	5,871	231,574	5,697	N/A
41	11-Mar-14	80.0	7,461	6,163	5,759	165,278	6,165	N/A
42	12-Mar-14	77.0	7,578	6,841	5,253	179,752	6,314	N/A
	AVG=	73.9	7,796	6,322	5,974	8,613,310	252,168	TOTAL

EXHIBIT 3

LITHOLOGY/ FORMATION	TOP DEPTH (TVD)	BOTTOM DEPTH (TVD)	TOP DEPTH (MD)	BOTTOM DEPTH (MD) From
	From Surface	From Surface	From Surface	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	1,730	Est. 1675	1,733
Big Lime	1,743	1,857	1,746	1,860
Big Injun	1,857	2,131	1,860	2,134
Gantz Sand	2,131	2,313	2,134	2,316
Fifty Foot Sandstone	2,313	2,526	2,316	2,529
Gordon	2,526	2,864	2,529	2,867
Fifth Sandstone	2,864	2,917	2,867	2,920
Bayard	2,917	3,227	2,920	3,230
Warren	3,227	3,457	3,230	3,460
Speechley	3,457	3,886	3,460	3,891
Baltown	3,886	4,406	3,891	4,435
Bradford	4,406	4,886	4,435	4,961
Benson	4,886	5,149	4,961	5,242
Alexander	5,149	5,356	5,242	5,466
Elk	5,356	5,956	5,466	6,139
Rhinestreet	5,956	6,402	6,139	6,634
Sycamore	6,374	6,626	6,606	6,910
Middlesex	6,598	6,757	6,882	7,122
Burkett	6,757	6,780	7,122	7,158
Tully	6,780	6,900	7,158	7,384
Marcellus	6,900	NA	7,384	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.

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	2/24/2014
Job End Date:	3/12/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06148-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Welch Unit 1H
Longitude:	-80.57842200
Latitude:	39.38643900
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,960
Total Base Water Volume (gal):	10,756,830
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	Operator	Carrier	Water	7732-18-5	100.00000	90.71508	
Sand, White, 40/70	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		5.11913	
Sand, White, 20/40	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		3.02087	
Sand, White, 100 mesh	Baker Hughes	Proppant	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.57541	
HCl, 10.1 - 15%	Baker Hughes	Acidizing	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.22004	SmartCare Product
GW-3LDF	Baker Hughes	Gelling Agent	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.10737	SmartCare Product
FRW-18	Baker Hughes	Friction Reducer	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.06839	SmartCare Product
Calcium Chloride	Baker Hughes	Salts	MSDS and Non-MSDS Ingredients Listed Below	N/A		0.03688	

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Enzyme G-NE	Baker Hughes	Breaker	MSDS and Non-MSDS Ingredients Listed Below				0.01727 SmartCare Product
Scaletrol 720	Baker Hughes	Scale Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.01524 SmartCare Product
Alpha 1427	Baker Hughes	Biocide	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.01335 SmartCare Product
Ferroltrol 300L	Baker Hughes	Iron Control	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.00150 SmartCare Product
CI-14	Baker Hughes	Corrosion Inhibitor	MSDS and Non-MSDS Ingredients Listed Below	N/A			0.00035 SmartCare Product
Ingredients shown above are subject to 29 CFR 1910.1200(f) and appear on Material Safety Data Sheets (MSDS). Ingredients shown below are Non-MSDS.							
Ingredients in Additive (s) (MSDS and non- MSDS)	Baker Hughes	See Trade Name(s) List					
			Crystalline Silica (Quartz)	14808-60-7		100.00000	8.70686
			Water	7732-18-5		95.00000	0.24694
			Mineral Oil	8042-47-5		70.00000	0.07503
			Guar Gum	9000-30-0		60.00000	0.06436
			Calcium Chloride	10043-52-4		100.00000	0.03758
			Hydrochloric Acid	7647-01-0		15.00000	0.03298
			Paraffinic Petroleum Distillate	64742-55-8		30.00000	0.03218
			Hydrotreated Light Distillate	64742-47-8		30.00000	0.02050
			Poly (acrylamide-co-acrylic acid) partial sodium salt	82649-23-4		30.00000	0.02050
			Ethylene Glycol	107-21-1		45.00000	0.00685
			Sodium Chloride	7647-14-5		5.00000	0.00541
			Isotridecanol, ethoxylated	9043-30-5		5.00000	0.00536
			Crystalline Silica: Quartz	14808-60-7		5.00000	0.00536
			1-butoxy-2-propanol	5131-66-8		5.00000	0.00536
			Glutaraldehyde	111-30-8		30.00000	0.00400
			2-Propenoic, Polymer with Sodium Phosphinate, Sodium Salt	71050-62-9		20.00000	0.00304
			Ammonium Chloride	12125-02-9		3.00000	0.00205
			Potassium Chloride	7447-40-7		5.00000	0.00199
			Oleamide DEA	93-83-4		2.00000	0.00137
			Alcohols, C12-16, ethoxylated	98551-12-2		2.00000	0.00137
			Didecyl Dimethyl Ammonium Chloride	7173-51-5		10.00000	0.00133
			Citric Acid	77-92-9		60.00000	0.00090
			Hemicellulase Enzyme Concentrate	9025-56-3		5.00000	0.00086
			Ethanol	64-17-5		5.00000	0.00067
			Quaternary Ammonium Compound	68424-85-1		5.00000	0.00067
			Methanol	67-56-1		100.00000	0.00035

			Polyoxyethylene Sorbitan Monooleate	9005-65-6	0.50000	0.00034
			Sorbitan Monooleate	1338-43-8	0.50000	0.00034
			2-butoxy-1-propanol	15821-83-7	0.10000	0.00011
			Polyoxyalkylenes	36951-67-7	30.00000	0.00011
			Fatty Acids	51790-12-3	10.00000	0.00004
			Modified Thiourea Polymer	36527-49-1	7.00000	0.00002
			Propargyl Alcohol	107-19-7	5.00000	0.00002
			Olefin	34743-02-8	5.00000	0.00002
			Formaldehyde	50-00-0	1.00000	0.00000

* Total Water Volume sources may include fresh water, produced water, and/or recycled water

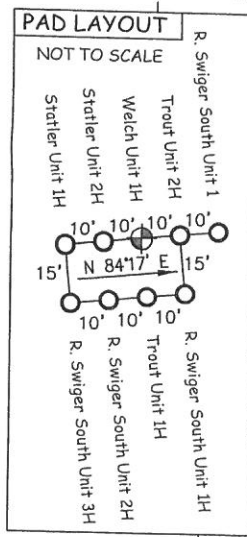
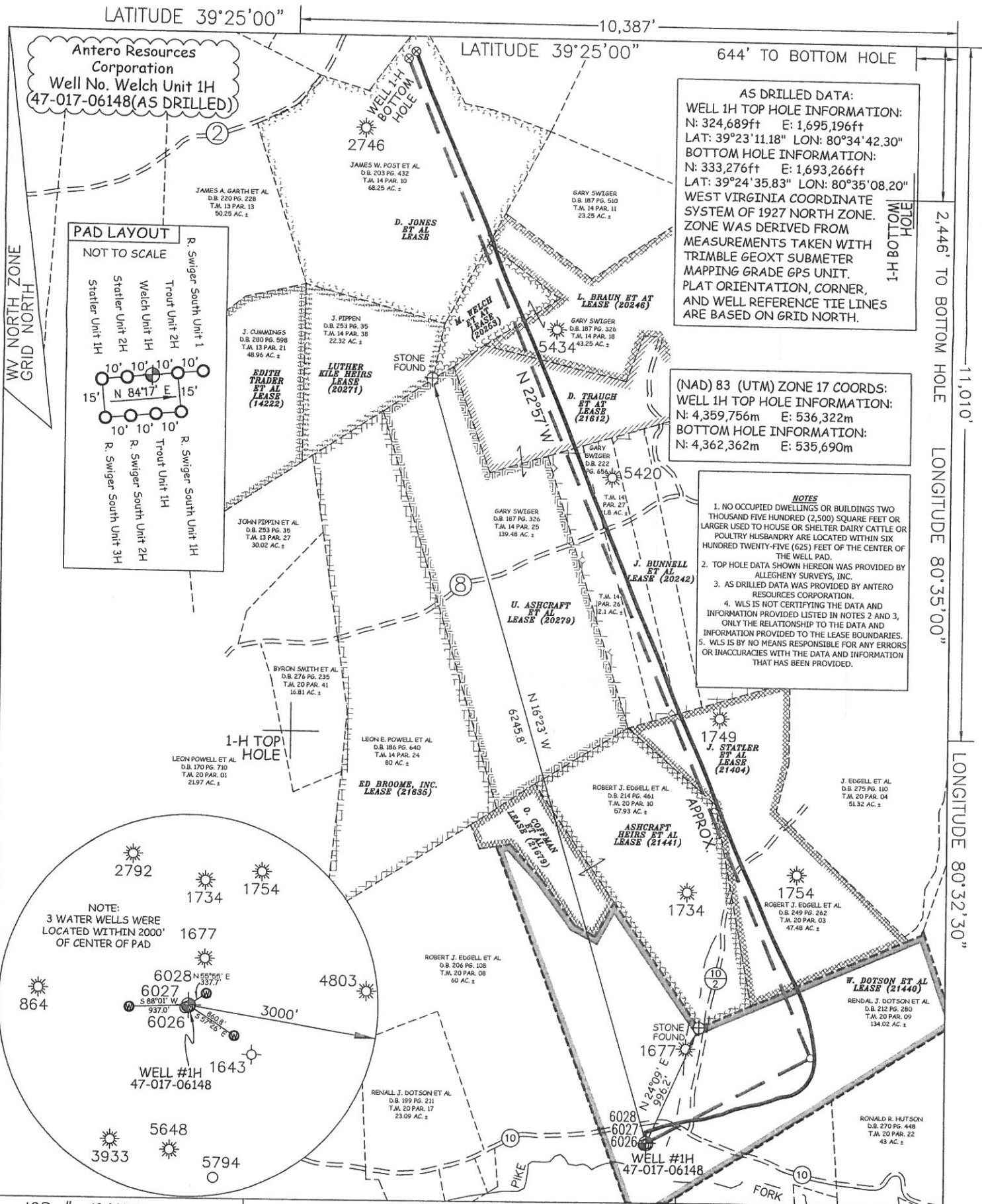
** Information is based on the maximum potential for concentration and thus the total may be over 100%

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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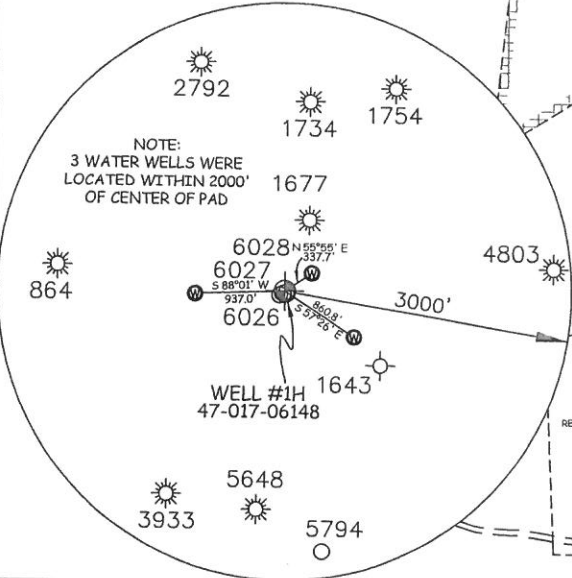
WV GEOLOGICAL SURVEY
MORGANTOWN, WV



AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
N: 324,689ft E: 1,695,196ft
LAT: 39°23'11.18" LON: 80°34'42.30"
BOTTOM HOLE INFORMATION:
N: 333,276ft E: 1,693,266ft
LAT: 39°24'35.83" LON: 80°35'08.20"
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: 4,359,756m E: 536,322m
BOTTOM HOLE INFORMATION:
N: 4,362,362m E: 535,690m

- 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 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 # 12-041WA
DRAWING # WELCHUNITP1HAD
SCALE 1" = 1000'
MINIMUM DEGREE OF ACCURACY SUBMETER
PROVEN SOURCE OF ELEV. SUBMETER MAPPING GRADE GPS
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'
SURFACE OWNER RENDAL J. DOTSON ET AL ACREAGE 134.02 ACRES +/-
OIL & GAS ROYALTY OWNER W. DOTSON ET AL; J. STATLER ET AL; ASHCRAFT HEIRS ET AL; LEASE ACREAGE 106 AC±; 44 AC±; 44 AC±; J. BUNNELL ET AL; D. TRAUGH ET AL; L. BRAUN ET AL; M. WELCH ET AL; D. JONES ET AL 88 AC±; 33.5 AC±; 33.5 AC±; 9.75 AC±; 68.25 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 6,947' TVD 15,879' 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



STATE OF WEST VIRGINIA, DIVISION OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS
WILLOW LAND SURVEYING PLLC
220 MASONIC AVENUE PENNSBORO WEST VIRGINIA 26415

LEGEND

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

DATE 04/20/15
OPERATOR'S WELL# WELCH UNIT #1H
API WELL # 47 - 017 - 06148
STATE COUNTY PERMIT
DISTRICT MCCLELLAN COUNTY DODDRIDGE
COUNTY NAME PERMIT