

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

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WV Department of
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API 47 - 017 - 06142 County Doddridge District Central
Quad West Union 7.5' Pad Name Jonathan Davis Pad Field/Pool Name ---
Farm name Davis, Jonathan L. Well Number Piggot 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 4350020m Easting 514768m
Landing Point of Curve Northing 4350208.59m Easting 514703.27m
Bottom Hole Northing 4350020m Easting 514768m

Elevation (ft) 1146' 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 11/19/2012 Date drilling commenced 2/15/2013 Date drilling ceased 2/24/2014
Date completion activities began 3/27/2014 Date completion activities ceased 6/20/2014
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 179', 270' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 757' 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:
A.L. 5/26/15
W.S. 6/2/15
06/05/2015

WR-35
Rev. 8/23/13

API 47-017 - 06142

Farm name Davis, Jonathan L.

MAY 18 2015
Well number Piggot Unit 1H

WV Department of
Environmental Protection

Did cement circulate (Y/ N)
* Provide details below*

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N)
Conductor	24"	20"	43'	New	94# H-40	N/A	Yes
Surface	17- 1/2"	13- 3/8"	677'	New	36# J-55	N/A	Yes
Coal							
Intermediate 1	12-1/4"	9-5/8"	2525'	New	36# J-55	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8-3/4" & 8-1/2"	5-1/2"	14150'	New	20# P-110	N/A	Yes
Tubing		2-3/8"	6738'		5.95# N-80	N/A	N/A
Packer type and depth set	N/A						

Comment Details Cement Squeeze (Production Casing) from 2500' - 5600' with 350 sx Class A Cement.

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	212 sx	15.6	1.18	43	0'	8 Hrs.
Surface	Class A	803 sx	15.6	1.18	677	0'	8 Hrs.
Coal							
Intermediate 1	Class A	915 sx	15.6	1.18	2525	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	932 sx (Lead) 1181 sx (Tail)	13.5 Lead 15.2 Tail	1.44 Lead 1.8 Tail	14150	-500 into intermediate casing	8 Hrs.
Tubing							

Drillers TD (ft) 14162' MD, 6671' TVD (BHL), 6690' (Deepest Point Drilled)

Loggers TD (ft) 14110' MD

Deepest formation penetrated Marcellus

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6105'

** This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Valentine Unit 1H API# 47-017-06083). Please reference the wireline logs submitted with Form WR-35 for the Valentine 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 _____

06/05/2015

API 47- 017 - 06142 Farm name Davis, Jonathan L. Well number Piggot Unit 1H

PRODUCING FORMATION(S)	DEPTHS	
<u>Marcellus</u>	<u>6634' (TOP)</u> TVD	<u>6752' (TOP)</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

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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 11635 mcfpd Oil 34 bpd NGL --- bpd Water 0 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)
-------------------------	--------------------------------	------------------------------	--------------------------	-----------------------------	--

	<u>0</u>		<u>0</u>		
* PLEASE SEE EXHIBIT 3					

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling Company, LP
Address 2640 Reach Rd. City Williamsport State PA Zip 17701

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 St. City Bridgeport State WV Zip 26330

Stimulating Company GoFrac
Address 62787 Philips Rd. City Cambridge State OH Zip 43725

Please insert additional pages as applicable.

Completed by Kara Quackenbush Telephone 303-357-7233
Signature *Kara Quackenbush* Title Permit Representative Date 1/21/2014

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

06/05/2015

API 47-017-06142 Farm Name Davis, Jonathan L. Well Number Piggot Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	27-Mar-14	13,936	14,062	60	Marcellus
2	8-May-14	13,787	13,913	60	Marcellus
3	8-May-14	13,638	13,764	60	Marcellus
4	8-May-14	13,490	13,616	60	Marcellus
5	8-May-14	13,341	13,457	60	Marcellus
6	9-May-14	13,192	13,318	60	Marcellus
7	9-May-14	13,043	13,169	60	Marcellus
8	9-May-14	12,894	13,020	60	Marcellus
9	9-May-14	12,745	12,871	60	Marcellus
10	10-May-14	12,596	12,722	60	Marcellus
11	10-May-14	12,447	12,573	60	Marcellus
12	10-May-14	12,299	12,425	60	Marcellus
13	10-May-14	12,150	12,276	60	Marcellus
14	11-May-14	12,001	12,127	60	Marcellus
15	11-May-14	11,852	11,978	60	Marcellus
16	12-May-14	11,703	11,829	60	Marcellus
17	12-May-14	11,554	11,680	60	Marcellus
18	12-May-14	11,405	11,531	60	Marcellus
19	12-May-14	11,256	11,383	60	Marcellus
20	13-May-14	11,108	11,234	60	Marcellus
21	13-May-14	10,959	11,085	60	Marcellus
22	13-May-14	10,810	10,936	60	Marcellus
23	13-May-14	10,661	10,787	60	Marcellus
24	14-May-14	10,512	10,638	60	Marcellus
25	14-May-14	10,363	10,489	60	Marcellus
26	14-May-14	10,214	10,340	60	Marcellus
27	14-May-14	10,065	10,192	60	Marcellus
28	15-May-14	9,917	10,043	60	Marcellus
29	15-May-14	9,768	9,894	60	Marcellus
30	16-May-14	9,619	9,745	60	Marcellus
31	16-May-14	9,470	9,596	60	Marcellus
32	16-May-14	9,321	9,447	60	Marcellus
33	16-May-14	9,172	9,298	60	Marcellus
34	17-May-14	9,023	9,149	60	Marcellus
35	17-May-14	8,874	9,001	60	Marcellus
36	18-May-14	8,726	8,852	60	Marcellus
37	18-May-14	8,577	8,703	60	Marcellus
38	18-May-14	8,428	8,554	60	Marcellus
39	18-May-14	8,279	8,405	60	Marcellus
40	18-May-14	8,130	8,256	60	Marcellus
41	19-May-14	7,981	8,107	60	Marcellus
42	19-May-14	7,832	7,958	60	Marcellus
43	19-May-14	7,684	7,810	60	Marcellus
44	19-May-14	7,535	7,661	60	Marcellus
45	19-May-14	7,386	7,512	60	Marcellus
46	19-May-14	7,237	7,363	60	Marcellus
47	19-May-14	7,088	7,214	60	Marcellus
48	20-May-14	6,939	7,065	60	Marcellus
49	20-May-14	6,790	6,916	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	27-Mar-14	75.5	7,520	5,701	5,172	213,971	5,892	N/A
2	8-May-14	73.4	7,311	5,670	4,576	217,911	5,720	N/A
3	8-May-14	74.7	7,805	5,700	4,966	154,811	6,028	N/A
4	8-May-14	70.1	7,251	5,284	5,453	217,836	5,915	N/A
5	8-May-14	71.9	7,359	5,381	5,551	151,646	5,851	N/A
6	9-May-14	74.7	7,751	5,398	5,554	218,589	5,838	N/A
7	9-May-14	72.1	7,258	5,660	5,186	219,121	6,002	N/A
8	9-May-14	77.9	7,803	5,439	4,319	220,784	5,803	N/A
9	9-May-14	76.8	7,396	5,140	4,763	220,608	5,699	N/A
10	10-May-14	75.5	7,302	5,128	5,168	211,851	5,823	N/A
11	10-May-14	76.3	7,511	5,360	5,234	214,643	6,032	N/A
12	10-May-14	79.3	7,536	5,179	4,903	212,744	5,752	N/A
13	10-May-14	79.2	7,337	5,180	4,940	210,593	5,734	N/A
14	11-May-14	53.3	6,690	5,280	4,729	211,569	5,600	N/A
15	11-May-14	77.5	7,561	5,241	4,941	212,800	5,672	N/A
16	12-May-14	54.8	6,675	5,138	5,028	210,588	5,783	N/A
17	12-May-14	75.6	7,498	5,536	5,093	212,855	5,648	N/A
18	12-May-14	76.8	7,411	5,347	5,050	212,386	5,644	N/A
19	12-May-14	79.1	7,354	5,387	4,812	215,755	5,622	N/A
20	13-May-14	77.5	7,401	5,610	4,794	214,183	5,537	N/A
21	13-May-14	74.8	7,187	5,566	5,128	212,320	5,628	N/A
22	13-May-14	74.0	7,334	5,438	4,881	213,120	5,645	N/A
23	13-May-14	76.9	7,475	5,492	4,602	212,971	5,619	N/A
24	14-May-14	73.9	7,186	5,317	5,332	215,206	5,603	N/A
25	14-May-14	75.1	7,525	5,289	4,856	215,418	5,656	N/A
26	14-May-14	77.4	7,340	5,403	5,263	212,047	5,700	N/A
27	14-May-14	74.9	7,185	5,433	5,074	220,136	5,375	N/A
28	15-May-14	73.0	7,144	5,466	4,783	219,549	5,572	N/A
29	15-May-14	76.2	7,272	5,455	5,052	223,011	5,601	N/A
30	16-May-14	74.3	6,934	5,444	5,282	222,104	5,590	N/A
31	16-May-14	75.5	7,199	5,460	4,573	220,566	5,627	N/A
32	16-May-14	66.6	6,937	5,645	4,639	221,342	5,779	N/A
33	16-May-14	76.9	7,377	5,401	4,800	175,297	6,040	N/A
34	17-May-14	75.5	6,951	5,349	5,237	220,384	5,523	N/A
35	17-May-14	77.8	6,951	5,434	5,233	222,985	5,489	N/A
36	18-May-14	77.7	7,097	5,467	4,814	222,133	5,489	N/A
37	18-May-14	76.2	7,015	5,192	4,456	219,857	5,482	N/A
38	18-May-14	77.6	7,005	5,317	4,670	221,703	5,485	N/A
39	18-May-14	76.0	7,357	5,611	4,456	221,839	5,489	N/A
40	18-May-14	77.5	7,206	5,484	5,150	223,123	5,459	N/A
41	19-May-14	77.8	7,020	5,570	4,843	224,811	5,450	N/A
42	19-May-14	77.0	6,723	5,728	4,436	222,262	5,428	N/A
43	19-May-14	76.2	6,883	5,693	4,552	221,665	5,419	N/A
44	19-May-14	77.3	6,939	5,822	5,052	223,782	5,429	N/A
45	19-May-14	77.8	6,800	5,280	5,440	222,318	5,382	N/A
46	19-May-14	77.1	7,016	5,471	4,821	195,610	5,333	N/A
47	19-May-14	68.9	6,569	5,497	5,359	213,569	5,346	N/A
48	20-May-14	72.6	6,799	5,941	4,543	221,784	5,363	N/A
49	20-May-14	76.6	7,387	6,246	3,877	221,518	5,463	N/A
AVG=		75	7,215	5,463	4,927	10,477,674	276,059	TOTAL

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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	179'	N/A	179'	N/A
Fresh Water	270'	N/A	270'	N/A
Sandy shale	est. 32	532	est. 32	532
Shale	est. 532	1132	est. 532	1132
Trace coal	est. 1132	1210	est. 1132	1210
Shale	est. 1210	1742	est. 1210	1742
Trace coal	est. 1742	1772	est. 1742	1772
Shale	est. 1772	1802	est. 1772	1802
Trace coal	est. 1802	1832	est. 1802	1832
Shale-Sand	est. 1832	1892	est. 1832	1892
Trace coal	est. 1892	1922	est. 1892	1922
Sandstone	est. 1922	2046	est. 1922	2046
Big Lime	est. 2046	2131	est. 2046	2131
Big Injun	est. 2131	2246	est. 2131	2246
Weir	est. 2246	2698	est. 2246	2698
Fifty Foot Sandstone	est. 2698	2787	est. 2698	2788
Gordon	est. 2787	3103	est. 2788	3106
Fifth Sandstone	est. 3103	3132	est. 3106	3135
Bayard	est. 3132	3449	est. 3135	3453
Speechley	est. 3449	4280	est. 3453	4284
Baltown	est. 4280	4609	est. 4284	4613
Bradford	est. 4609	5039	est. 4613	5043
Benson	est. 5039	5299	est. 5043	5303
Alexander	est. 5299	6280	est. 5303	6287
Sycamore	6280	6447	6287	6467
Middlesex	6447	6569	6467	6625
Burkett	6569	6597	6625	6671
Tully	6597	6634	6671	6752
Marcellus	6634	NA	6752	NA

*Please note Antero determines formation tops based on wireline logs that are only run on one well on a multi-well pad (Please reference Valentine Unit 1H API# 47-017-06083). 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:	5/7/2014
Job End Date:	5/20/2014
State:	West Virginia
County:	Doddridge
API Number:	47-017-06142-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Piggot Unit 1H
Longitude:	-80.82890300
Latitude:	39.29935800
Datum:	NAD27
Federal/Tribal Well:	NO
True Vertical Depth:	6,689
Total Base Water Volume (gal):	11,594,436
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
Freshwater	Republic Energy	Frac Base	Water	7732-18-5	100.00000	89.74364	None
40/70 White Sand	US Silica	Proppant	Sand	14808-60-7	100.00000	5.81815	None
20/40 White Sand	US Silica	Proppant	Sand	14808-60-7	100.00000	3.41532	None
100 Mesh	US Silica	Proppant	Sand	14808-60-7	100.00000	0.60566	None
Plexslick 953	Chemplex	Friction Reducer	Water	7732-18-5	35.00000	0.02252	None
			Polyacrylamide-co-acrylic acid	Proprietary	32.00000	0.02059	None
			Hydrotreated Petroleum Distillate	64742-47-8	30.00000	0.01930	None
			Alcohol Ethoxylate Surfactants	Proprietary	8.00000	0.00515	None
SOS 1545	Ultrablend	Guar Gel	Hydrocarbons	64741-85-1	70.00000	0.06218	None
HCl Acid 10-15%	GoFrac	Acid	Hydrochloric Acid	7647-01-0	15.00000	0.03478	None
Plexaid 673	Chemplex	Scale Inhibitor	Water	7732-18-5	85.00000	0.01183	None

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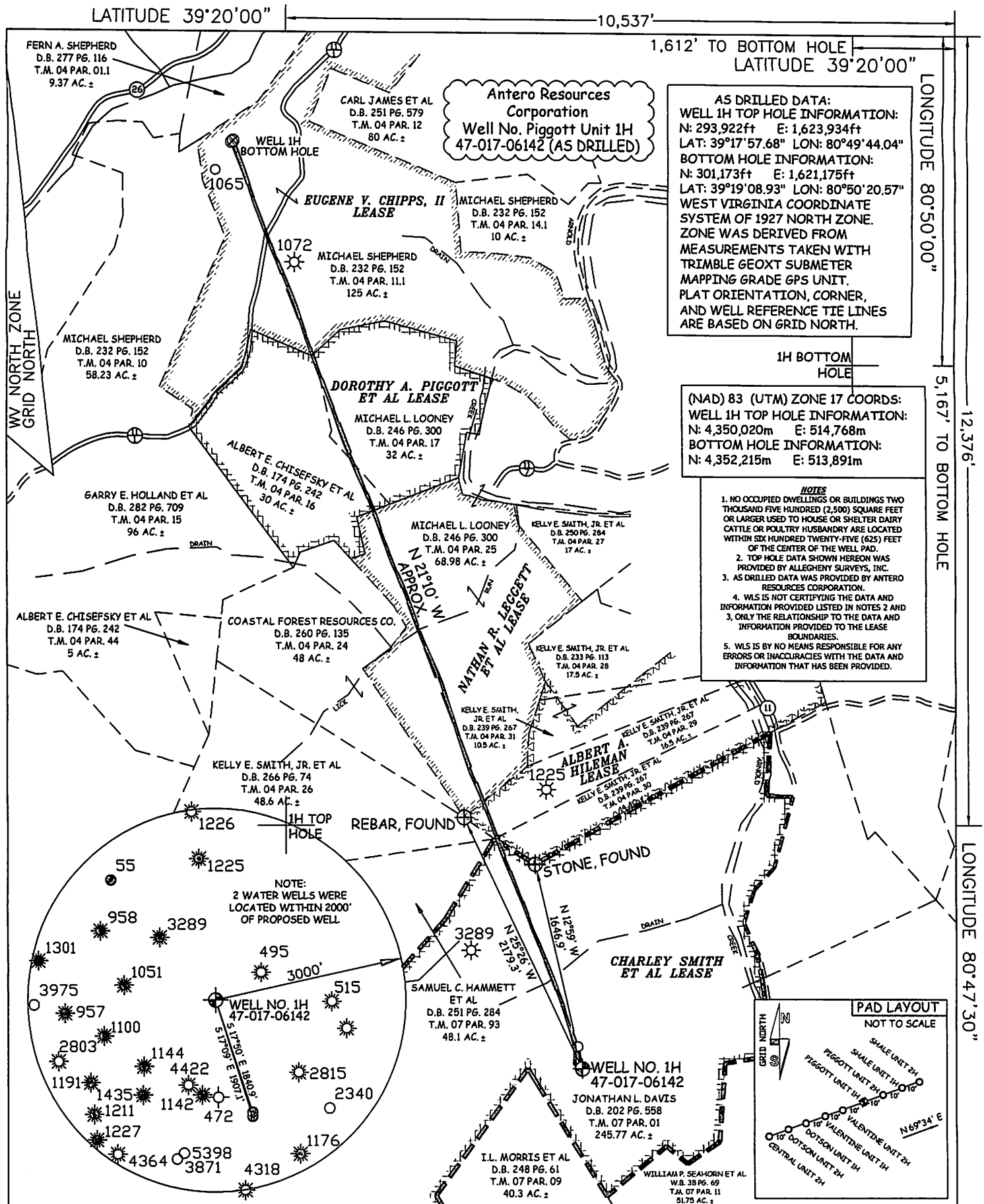
				Methyl Alcohol	67-56-1	25.00000	0.00348	None
				Sodium Salt of Phosphonodimethylated Diamine	Proprietary	5.00000	0.00070	None
Plexicide 15G	Chemplex	Biocide		Water	7732-18-5	90.00000	0.00880	None
				Glutaraldehyde	111-30-8	14.00000	0.00137	None
				Didecyl Dimethyl Ammonium Chloride	7173-51-5	3.00000	0.00029	None
				Ethanol	64-17-5	3.00000	0.00029	None
				Alkyl Dimethyl Benzyl Ammonium Chloride	68424-85-1	3.00000	0.00029	None
Sodium Persulfate	Chemplex	Active Breaker		Sodium Persulfate	7775-27-1	100.00000	0.00129	None
Greenflush	Chemplex	Cleaner		Alcohol Ethoxylate Surfactants	Proprietary	10.00000	0.00059	None
Ferriflex 66	Chemplex	Iron Control		Acetic Acid	64-19-7	50.00000	0.00025	None
				Water	7732-18-5	35.00000	0.00018	None
				Citric Acid	77-92-9	30.00000	0.00015	None
Plexhib 256	Chemplex	Corrosion Inhibitor		Methyl Alcohol	67-56-1	70.00000	0.00027	None
				Thiourea-formaldehyde copolymer	68527-49-1	30.00000	0.00011	None
				Alcohol Ethoxylate Surfactants	Proprietary	30.00000	0.00011	None
				n-olefins	Proprietary	10.00000	0.00004	None
				Propargyl Alcohol	107-19-7	8.00000	0.00003	None
Plexbreak 145	Chemplex	Non-Emulsifier		Water	7732-18-5	66.00000	0.00028	None
				Methyl Alcohol	67-56-1	15.00000	0.00006	None
				Ethylene Glycol Monobutyl Ether	111-76-2	15.00000	0.00006	None
				Cocamide Diethanolamine Salt	68603-42-9	10.00000	0.00004	None
				Diethanolamine	111-42-2	5.00000	0.00002	None

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)

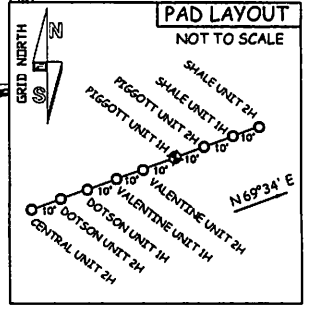


AS DRILLED DATA:
WELL 1H TOP HOLE INFORMATION:
 N: 293,922ft E: 1,623,934ft
 LAT: 39°17'57.68" LON: 80°49'44.04"
BOTTOM HOLE INFORMATION:
 N: 301,173ft E: 1,621,175ft
 LAT: 39°19'08.93" LON: 80°50'20.57"
 WEST VIRGINIA COORDINATE SYSTEM OF 1927 NORTH ZONE. ZONE WAS DERIVED FROM MEASUREMENTS TAKEN WITH TRIMBLE GEOXT SUBMETER MAPPING GRADE GPS UNIT. PLAT ORIENTATION, CORNER, AND WELL REFERENCE TIE LINES ARE BASED ON GRID NORTH.

1H BOTTOM HOLE

(NAD) 83 (UTM) ZONE 17 COORDS:
WELL 1H TOP HOLE INFORMATION:
 N: 4,350,020m E: 514,768m
BOTTOM HOLE INFORMATION:
 N: 4,352,215m E: 513,891m

- 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 # 12-073WA
 DRAWING # PIGGOTT1HAD
 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 +/-
- Existing Fence
- Found monument, as noted
- Proposed Well Path
- As Drilled Well Path

DATE 04/14/15
 OPERATOR'S WELL # PIGGOTT UNIT #1H

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 1,183' ORIGINAL - 1,146' AS-DRILLED WATERSHED HEADWATERS MIDDLE ISLAND CREEK PERMIT
 QUADRANGLE WEST UNION 7.5' DISTRICT CENTRAL COUNTY DODDER

SURFACE OWNER JONATHAN L. DAVIS ACREAGE 245.77 ACRES +/-
 OIL & GAS ROYALTY OWNER CHARLEY SMITH ET AL; ALBERT A. HILEMAN; NATHAN R. LEGGETT ET AL; DOROTHY A. PIGGOTT ET AL; EUGENE V. CHIPPS, II LEASE ACREAGE 213 ACRES +/-
 68.98 ACRES; 62 ACRES; 240 ACRES +/-

PROPOSED WORK: DRILL ___ CONVERT ___ DRILL DEEPER ___ REDRILL ___ FRACTURE ___ STIMULATED ___
 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 6,671' TVD 14,162' 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

LONGITUDE 80°47'30"

LONGITUDE 80°50'00"

5,167' TO BOTTOM HOLE

1,612' TO BOTTOM HOLE

LATITUDE 39°20'00"

10,537'

LATITUDE 39°20'00"

WV NORTH ZONE GRID NORTH

PAD LAYOUT NOT TO SCALE

DATE 05/29/15

RECEIVED
 OFFICE OF OIL AND GAS
 MAY 1 2015

Department of Environmental Protection