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WR-35

Rev. 8/23/13

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WV GEOLOGICAL SURVEY
MORGANTOWN, WV

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

API 47-017-06327 County Doddridge District West Union
Quad Smithburg 7.5' Pad Name Nash Pad Field/Pool Name _____
Farm name Haug, Robert M., et al Well Number Joseph 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 4,351,828m Easting 524,803m
Landing Point of Curve Northing 4,351,996.17m Easting 524,805.77m
Bottom Hole Northing 4,354,222m Easting 524,070m

Elevation (ft) 1,381' 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 09/25/2013 Date drilling commenced 09/05/2014 Date drilling ceased 11/12/2014
Date completion activities began 11/23/2014 Date completion activities ceased 01/29/2015
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 206', 222' Open mine(s) (Y/N) depths No
Salt water depth(s) ft 1561', 1854' Void(s) encountered (Y/N) depths None
Coal depth(s) ft None Identified Cavern(s) encountered (Y/N) depths None
Is coal being mined in area (Y/N) No

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Farm name Haug, Robert M., et al

Well number Joseph 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#; J-55	N/A	Yes
Surface	17 1/2"	13 3/8"	397'	New	48#; H-40	N/A	Yes
Coal							
Intermediate 1	12 1/4"	9 5/8"	2,575'	New	44#; N-80	N/A	Yes
Intermediate 2							
Intermediate 3							
Production	8 3/4" & 8 1/2"	5 1/2"	15,214'	New	23#; P-110	N/A	Yes
Tubing		2 3/8"	7,243		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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Class A	196 sx	14.2	1.18	38	0'	8 Hrs.
Surface	Class A	461 sx	15.6	1.18	276	0'	8 Hrs.
Coal							
Intermediate 1	Class A	1,003 sx	15.6	1.18	806	0'	8 Hrs.
Intermediate 2							
Intermediate 3							
Production	Class H	1,112 sx (Lead); 1,277 sx (Tail)	13.5 (Lead); 15.2 (Tail)	1.44 (Lead); 1.8 (Tail)	3,010	-500' into Intermediate Casing	8 Hrs.
Tubing							

Drillers TD (ft) 15,214' MD; 7,217' TVD (BHL & Deepest Point Drilled)

Loggers TD (ft) 15,164'

Deepest formation penetrated Marcellus

Plug back to (ft) N/A

Plug back procedure N/A

Kick off depth (ft) 6,734'

**This is a subsequent well. Antero only runs wireline logs on one well on a multi-well pad (Olivia Unit 1H, API #47-017-06332). Please reference the wireline logs submitted with Form WR-35 for the Olivia 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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API 47- 017 - 06327 Farm name Haug, Robert M., et al Well number Joseph Unit 1H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	7,113' (top)	TVD 7,257' (top) MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3550 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 4,254 mcfpd Oil _____ bpd NGL _____ bpd Water _____ 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	
	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 STRC
Address 1560 Good Hope Pike City Clarksburg State WV Zip 26301

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

Stimulating Company Nabors Completion & Production Services, Co.
Address 1650 Hackers Creek City Jane Lew State WV Zip 26378

Please insert additional pages as applicable.

Completed by Megan Darling Telephone 303-357-7230
Signature Megan C. Darling Title Permitting Agent Date 06/05/2015

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

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API 47-017-06327 Farm Name Haug, Robert M., et al Well Number Joseph Unit 1H

EXHIBIT 1

Stage No.	Perforation Date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formations
1	23-Nov-14	14,954	15,124	60	Marcellus
2	28-Dec-14	14,753	14,923	60	Marcellus
3	28-Dec-14	14,551	14,721	60	Marcellus
4	29-Dec-14	14,350	14,520	60	Marcellus
5	29-Dec-14	14,148	14,318	60	Marcellus
6	5-Jan-15	13,947	14,117	60	Marcellus
7	6-Jan-15	13,746	13,915	60	Marcellus
8	6-Jan-15	13,544	13,714	60	Marcellus
9	9-Jan-15	13,343	13,513	60	Marcellus
10	9-Jan-15	13,141	13,311	60	Marcellus
11	9-Jan-15	12,940	13,110	60	Marcellus
12	10-Jan-15	12,739	12,908	60	Marcellus
13	11-Jan-15	12,537	12,707	60	Marcellus
14	11-Jan-15	12,336	12,506	60	Marcellus
15	12-Jan-15	12,134	12,304	60	Marcellus
16	12-Jan-15	11,933	12,103	60	Marcellus
17	12-Jan-15	11,731	11,901	60	Marcellus
18	12-Jan-15	11,530	11,700	60	Marcellus
19	13-Jan-15	11,329	11,498	60	Marcellus
20	13-Jan-15	11,127	11,297	60	Marcellus
21	13-Jan-15	10,926	11,096	60	Marcellus
22	14-Jan-15	10,724	10,894	60	Marcellus
23	14-Jan-15	10,523	10,693	60	Marcellus
24	15-Jan-15	10,321	10,491	60	Marcellus
25	15-Jan-15	10,120	10,290	60	Marcellus
26	15-Jan-15	9,919	10,089	60	Marcellus
27	15-Jan-15	9,717	9,887	60	Marcellus
28	16-Jan-15	9,516	9,686	60	Marcellus
29	16-Jan-15	9,314	9,484	60	Marcellus
30	16-Jan-15	9,113	9,283	60	Marcellus
31	16-Jan-15	8,912	9,081	60	Marcellus
32	17-Jan-15	8,710	8,880	60	Marcellus
33	17-Jan-15	8,509	8,679	60	Marcellus
34	17-Jan-15	8,307	8,477	60	Marcellus
35	17-Jan-15	8,106	8,276	60	Marcellus
36	18-Jan-15	7,904	8,074	60	Marcellus
37	18-Jan-15	7,703	7,873	60	Marcellus
38	18-Jan-15	7,502	7,671	60	Marcellus
39	18-Jan-15	7,300	7,470	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 (bbbls)	Amount of Nitrogen/ other (units)
1	28-Dec-14	62.3	7,090	5,767	5,259	247,000	6,738	N/A
2	28-Dec-14	64.3	7,346	6,487	5,101	246,200	6,651	N/A
3	28-Dec-14	64.1	7,203	5,933	5,766	246,800	6,637	N/A
4	29-Dec-14	63.9	6,814	5,798	5,379	247,000	6,647	N/A
5	29-Dec-14	63.9	6,822	5,511	5,231	248,900	6,592	N/A
6	5-Jan-15	64.8	6,889	5,758	5,371	246,900	6,520	N/A
7	6-Jan-15	64.0	7,071	5,767	4,966	247,900	6,543	N/A
8	6-Jan-15	63.2	6,942	5,757	5,452	251,200	6,584	N/A
9	9-Jan-15	57.3	6,627	5,646	5,160	173,000	6,468	N/A
10	9-Jan-15	64.1	6,981	6,064	5,593	246,300	6,480	N/A
11	9-Jan-15	62.3	6,804	5,392	4,438	244,000	6,478	N/A
12	10-Jan-15	64.2	6,902	5,489	4,936	246,900	6,466	N/A
13	11-Jan-15	63.6	7,076	5,434	4,898	240,200	6,394	N/A
14	11-Jan-15	65.0	6,887	5,600	4,713	247,900	6,414	N/A
15	12-Jan-15	63.8	6,894	5,471	5,360	248,100	6,476	N/A
16	12-Jan-15	63.7	6,847	5,711	5,563	247,400	6,421	N/A
17	12-Jan-15	65.3	6,758	5,619	5,051	246,700	6,344	N/A
18	12-Jan-15	66.5	7,101	5,360	4,135	190,200	6,867	N/A
19	13-Jan-15	64.3	6,663	5,304	4,472	248,100	6,519	N/A
20	13-Jan-15	64.3	7,023	5,656	5,025	247,300	6,304	N/A
21	13-Jan-15	65.5	6,804	5,582	5,504	245,500	6,363	N/A
22	14-Jan-15	63.0	6,706	5,545	5,767	249,900	6,277	N/A
23	14-Jan-15	65.1	6,536	5,867	4,866	253,100	6,352	N/A
24	15-Jan-15	64.5	6,628	5,434	5,101	242,700	6,198	N/A
25	15-Jan-15	64.2	6,635	5,619	5,471	247,000	6,254	N/A
26	15-Jan-15	64.7	7,104	5,814	5,012	209,700	6,003	N/A
27	15-Jan-15	64.3	6,457	5,801	5,056	249,700	6,213	N/A
28	16-Jan-15	64.5	6,620	5,360	5,304	242,200	6,073	N/A
29	16-Jan-15	64.6	6,899	5,711	5,323	242,000	6,159	N/A
30	16-Jan-15	64.8	6,438	5,596	5,413	249,400	6,125	N/A
31	16-Jan-15	65.0	6,702	6,086	4,935	249,400	6,119	N/A
32	17-Jan-15	64.3	6,570	5,830	4,983	243,000	6,714	N/A
33	17-Jan-15	64.3	6,187	5,746	4,942	260,200	6,121	N/A
34	17-Jan-15	65.2	6,625	5,925	5,354	199,500	6,424	N/A
35	17-Jan-15	65.0	6,398	6,042	5,314	249,300	6,085	N/A
36	18-Jan-15	64.6	6,229	5,471	4,774	247,400	6,067	N/A
37	18-Jan-15	65.8	6,287	5,617	5,009	223,700	6,037	N/A
38	18-Jan-15	65.6	5,992	5,295	4,668	249,100	6,023	N/A
39	18-Jan-15	64.2	6,223	5,735	4,010	215,500	5,567	N/A
	AVG=	64.2	6,738	5,682	5,094	9,376,300	247,717	TOTAL

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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	206'	N/A	206'	N/A
Fresh Water	222'	N/A	222'	N/A
Shale	0	37	0	37
Siltstone	Est. 37	317	Est. 37	317
Sandstone	Est. 317	332	Est. 317	332
Siltstone/ Trace Coal	Est. 332	397	Est. 332	397
Sandstone	Est. 397	557	Est. 397	557
Silty Limestone	Est. 557	677	Est. 557	677
Sandstone	Est. 677	717	Est. 677	717
Siltstone	Est. 717	797	Est. 717	797
Limestone/Shale	Est. 797	837	Est. 797	837
Siltstone/ Sandstone	Est. 837	897	Est. 837	897
Limestone	Est. 897	917	Est. 897	917
Sandstone/ Siltstone	Est. 917	977	Est. 917	977
Limestone	Est. 977	997	Est. 977	997
Siltstone/ Limestone	Est. 997	1,357	Est. 997	1,357
Shale	Est. 1357	1,397	Est. 1357	1,397
Sandstone	Est. 1397	1,437	Est. 1397	1,437
Shale/ Sandstone	Est. 1437	1,617	Est. 1437	1,617
Sandstone	Est. 1617	1,677	Est. 1617	1,677
Sandstone/ Trace Coal	Est. 1677	1,717	Est. 1677	1,717
Sandstone / Siltstone	Est. 1717	2,163	Est. 1717	2,166
Big Lime	2,163	2,322	2,166	2,325
Big Injun	2,322	2,752	2,325	2,755
Gantz Sand	2,752	2,886	2,755	2,889
Fifty Foot Sandstone	2,886	2,965	2,889	2,968
Gordon	2,965	3,267	2,968	3,270
Fifth Sandstone	3,267	3,384	3,270	3,387
Bayard	3,384	3,673	3,387	3,676
Warren	3,673	4,046	3,676	4,049
Speechley	4,046	4,330	4,049	4,333
Baltown	4,330	4,872	4,333	4,875
Bradford	4,872	5,351	4,875	5,354
Benson	5,351	5,569	5,354	5,572
Alexander	5,569	5,776	5,572	5,779
Elk	5,776	6,365	5,779	6,368
Rhinstreet	6,365	6,636	6,368	6,641
Sycamore	6,636	6,861	6,641	6,874
Middlesex	6,861	7,008	6,874	7,058
Burkett	7,008	7,037	7,058	7,102
Tully	7,037	7,113	7,102	7,257
Marcellus	7,113	NA	7,257	NA

*Please note Antero determines shallow formation tops based on mud and/or wireline logs that are only run on one well on a multi-well pad (please reference wireline logs for Olivia Unit 1H, API #47-017-06332). 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:	12/28/2014
Job End Date:	1/18/2015
State:	West Virginia
County:	Doddridge
API Number:	47-017-06327-00-00
Operator Name:	Antero Resources Corporation
Well Name and Number:	Joseph Unit 1H
Longitude:	-80.71228300
Latitude:	39.31549700
Datum:	NAD83
Federal/Tribal Well:	NO
True Vertical Depth:	7,217
Total Base Water Volume (gal):	10,404,114
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	ANTERO RESOURCES	Water					
WV Specific 40/70 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - West Virginia	Water	7732-18-5	100.00000	89.94509	
			Crystalline Silica, quartz	14808-60-7	99.90000	5.39657	
			Aluminum Oxide	1344-28-1	1.10000	0.05942	
			Iron Oxide	1309-37-1	0.10000	0.00540	
			Titanium Oxide	13463-67-7	0.10000	0.00540	
WV Specific 20/40 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - West Virginia					
			Crystalline Silica, quartz	14808-60-7	99.90000	3.46713	
			Aluminum Oxide	1344-28-1	1.10000	0.03818	
			Iron Oxide	1309-37-1	0.10000	0.00347	
			Titanium Oxide	13463-67-7	0.10000	0.00347	
WV Specific 100 mesh Sand	Nabors Completion and Production Services	Sand - Bulk - West Virginia					
			Crystalline Silica, quartz	14808-60-7	99.90000	0.78971	
			Aluminum Oxide	1344-28-1	1.10000	0.00870	

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			Titanium Oxide	13463-67-7	0.10000	0.00079	
			Iron Oxide	1309-37-1	0.10000	0.00079	
HCl Acid (12.5-18.0%) 22 Baume	Nabors Completion and Production Services	Bulk Acid					
			Water	7732-18-5	87.50000	0.18268	
			Hydrochloric Acid	7647-01-0	18.00000	0.03758	
WFR-6W	Nabors Completion and Production Services	Friction Reducer					
			Anionic Water-Soluble Polymer Emulsion	Proprietary	100.00000	0.06494	
LSG-100L	Nabors Completion and Production Services	Gelling Agents					
			Petroleum Distillates	64742-47-8	70.00000	0.05204	
Super TSC-LT	Nabors Completion and Production Services	Paraffin & Scale Additives					
			100% Non-Hazardous Mixture	Proprietary	100.00000	0.01615	
AQUACAR DB 20	Nabors Completion and Production Services	Biocides					
			Polyethylene glycol	25322-68-3	54.50000	0.00888	
			2,2-Dibromo-3-nitrilo- propionamide (DBNPA)	10222-01-2	20.00000	0.00326	
			Sodium bromide	7647-15-6	4.00000	0.00065	
			Dibromoacetonitrile	3252-43-5	3.00000	0.00049	
Calcium Chloride (CaCl ₂)	Nabors Completion and Production Services	Cement Accelerators					
			Calcium Chloride	10043-52-4	100.00000	0.00881	
Super GREEN SOLV- M	Nabors Completion and Production Services	Paraffin & Scale Additives					
			Aliphatic Hydrocarbons	Proprietary	95.00000	0.00099	
			Dodecane	Proprietary	14.00000	0.00015	
			tetradecane	Proprietary	11.00000	0.00011	
			Tridecane	Proprietary	9.00000	0.00009	
			Undecane	Proprietary	8.00000	0.00008	
OB-2 LT	Nabors Completion and Production Services	Gel Breakers					
			Ammonium Persulfate	7727-54-0	85.00000	0.00055	
			Crystalline Silica (in the form of quartz)	14808-60-7	10.00000	0.00006	
Acid Inhibitor 2 (AI-2)	Nabors Completion and Production Services	Acid Corrosion Inhibitors					
			Propargyl Alcohol	107-19-7	40.00000	0.00016	
			Glycol Ethers	111-46-6	40.00000	0.00016	
			Isopropyl Alcohol	67-63-0	40.00000	0.00016	

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EB-4L	Nabors Completion and Production Services	Gel Breakers	Tar bases, quinoline derivs, benzyl chloride-quaternized	72480-70-7	10.00000	0.00004
			Ethylene Glycol	107-21-1	40.00000	0.00018
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.						
	Nabors Completion and Production Services	Other Ingredients				
			Copolymer	Proprietary	100.00000	0.06494
			guar gum	9000-30-0	50.00000	0.03717
			Water	7732-18-5	40.00000	0.02598
			Isoparaffinic Solvent	64742-47-8	26.00000	0.01688
			Water	7732-18-5	60.00000	0.00969
			Proprietary	Proprietary	50.00000	0.00807
			Water	7732-18-5	32.00000	0.00522
			Ethoxylated alcohols	Proprietary	4.00000	0.00260
			Ethylene Glycol	107-21-1	4.00000	0.00260
			Proprietary	Proprietary	15.00000	0.00242
			Proprietary	Proprietary	15.00000	0.00242
			Proprietary	Proprietary	15.00000	0.00242
			Surfactant Blend	Proprietary	3.00000	0.00195
			Surfactant	38439-51-0	2.00000	0.00149
			Crystalline Silica (in the form of quartz)	14808-60-7	2.00000	0.00149
			Sugar	57-50-1	100.00000	0.00044
			Proprietary	Proprietary	100.00000	0.00044
			Sodium Chloride	7647-14-5	5.00000	0.00044
			Potassium Chloride	7447-40-7	5.00000	0.00044
			Water	7732-18-5	100.00000	0.00022
			Water	7732-18-5	48.00000	0.00019
			2,2-Dibromomalonamide	73003-80-2	1.00000	0.00016
			Monobromo-3-nitropropionamide	1113-55-9	1.00000	0.00016
			Alkali Chloride salt	Proprietary	15.00000	0.00010
			Water	7732-18-5	1.00000	0.00009
			2-Propanamide as residual	79-06-1	0.10000	0.00007
			2-Butoxyethanol	111-76-2	13.00000	0.00005
			Proprietary	Proprietary	10.00000	0.00004
			Proprietary	Proprietary	0.99000	0.00000
			Proprietary	Proprietary	1.00000	0.00000
			Proprietary	Proprietary	1.00000	0.00000
			Proprietary	Proprietary	1.00000	0.00000
			Proprietary	Proprietary	1.00000	0.00000
			Organophylic Clay	68953-58-2	1.00000	0.00000
			Proprietary	Proprietary	0.02000	

* 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

