



03/29/2019

Jackie M. Scholar
Regulatory Reporting Coordinator

November 14, 2018

CERTIFIED MAIL: 7016 0340 0000 4903 5709

WV DEP
Office of Oil and Gas
601 – 57th Street
Charleston, WV 25304

RE: Well Operator's Report of Well Work WR-35
Hart 6H

Dear Sir/Madam,

Enclosed here within please find one (1) Well Operator's Report of Well Work WR-35, one (1) copy of the Plat on Mylar, one (1) copy of the FracFocus report, and one (1) copy of the Directional Survey for **Hart 6H, (API 47-051-01752)**.

If you have any questions, please contact me at (412) 865-3422. Thank you.

Sincerely,
Chevron Appalachia, LLC

Jackie M. Scholar

Enclosures

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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 - 051 - 01752 County Marshall District Washington
Quad Moundsville Pad Name Hart Field/Pool Name _____
Farm name John Hart Well Number Hart 6H
Operator (as registered with the OOG) Chevron Appalachia, LLC
Address 700 Cherrington Parkway City Coraopolis State PA Zip 15108

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 516937.76 Easting 1644547.18
Landing Point of Curve Northing 517143.63 Easting 1643637.68
Bottom Hole Northing 522556.21 Easting 1638990.65

Elevation (ft) 1329' 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)
Synthetic - fluid loss control, emulsifiers, shale stabilizer

Date permit issued 6/16/14 Date drilling commenced 10/31/17 Date drilling ceased 9/30/15
Date completion activities began 6/7/18 Date completion activities ceased 11/6/18
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft 254' MD from GL Open mine(s) (Y/N) depths N
Salt water depth(s) ft 1997' MD from GL Void(s) encountered (Y/N) depths N
Coal depth(s) ft 859' MD from GL Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed

Reviewed by:
Jan Arnold
3/28/19

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Rev. 8/23/13

API 47-051 - 01752 Farm name John Hart Well number Hart 6H

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	36"	30"	40'	New			Y
Surface	26"	20"	312'	New	J-55; 94		Y
Coal	17 1/2"	13 3/8"	885'	New	J-55; 54.50		Y
Intermediate 1	12 1/4"	9 5/8"	2222'	New	L-80; 40		Y
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	14215'	New	P-110; 20		Y
Tubing							
Packer type and depth set							

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	Bulk Cement	Bulk Cement				Surface	8
Surface	Class A	600	15.60	1.20	720	Surface	8
Coal	Class A	843	15.60	1.20	1011	Surface	8
Intermediate 1	Class A	776	15.6	1.18	915	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	Lead: 1393; Tail: 1400	Lead & Tail: 15.2	Lead & Tail: 1.26	Lead: 1755; Tail: 1764	500' below 9 5/8" shoe, as planned	8
Tubing							

Drillers TD (ft) 14230' Loggers TD (ft) 14230'
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

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Kick off depth (ft) 5502' _____

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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 there is a bow spring centralizer every two joints on the water, coal, and intermediate strings. Production string has two centralizers every joint in the lateral and curve, then one every joint from KOP to surface.

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS SEE ATTACHED PERFORATION / STIMULATION REPORT

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

API 47- 051 - 01752 Farm name John Hart Well number Hart 6H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHED			

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)
		SEE	ATTACHED					

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Please insert additional pages as applicable.

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API 47- 051 - 01752 Farm name John Hart Well number Hart 6H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6569'	TVD 6594' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump
 SHUT-IN PRESSURE Surface _____ psi Bottom Hole _____ psi DURATION OF TEST _____ hrs
 OPEN FLOW Gas _____ 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		
	SEE	ATTACHED			

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Please insert additional pages as applicable.

Drilling Contractor SEE ATTACHED
Address _____ City _____ State _____ Zip _____

Logging Company Stratagraph NE Inc
Address 116 Ellsworth Avenue City Marietta State OH Zip 45750

Cementing Company Baker Hughes
Address 5373 West Alabama, Suite 300 City Houston State TX Zip 77056

Stimulating Company SEE ATTACHED
Address _____ City _____ State _____ Zip _____

Please insert additional pages as applicable.

Completed by Jackie M. Scholar Telephone 412-865-3422
Signature  Title Regulatory Compliance Team Lead Date 11/7/18

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

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API: 47-051-01752	Farm Name: John Hart	Well Number: Hart 6H
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PERF & STIM CONTRACTORS		
Driller	Driller	Driller
Name Schlumberger Technology Corp	Name Universal Pressure Pumping	Name
Address 4600 J Barry Court, Suite 200	Address 18360 Technology Drive	Address
City - State - Zip Canonsburg, PA 15307	City - State - Zip Meadville, PA 16335	City - State - Zip

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API: 47-051-01753	Farm Name: John Hart	Well Number: Hart 6H
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PERFORATION RECORD					
Stage No.	Perforation Date	Perforated From TMD Ft.	Perforated To TMD Ft.	Number of Perforations	Formation(s)
1	7/2/16	14184	13732	120	Marcellus
2	6/26/18	13533	13693	47	Marcellus
3	6/26/18	13333	13493	47	Marcellus
4	6/27/18	13133	13293	47	Marcellus
5	6/28/18	12933	13093	47	Marcellus
6	6/28/18	12733	12893	47	Marcellus
7	6/29/18	12533	12693	47	Marcellus
8	6/30/18	12333	12493	47	Marcellus
9	6/30/18	12133	12293	47	Marcellus
10	7/1/18	11933	12093	47	Marcellus
11	7/2/18	11733	11893	47	Marcellus
12	7/2/18	11533	11693	47	Marcellus
13	7/3/18	11333	11493	47	Marcellus
14	7/3/18	11133	11293	47	Marcellus
15	7/4/18	10933	11093	47	Marcellus
16	7/4/18	10733	10893	47	Marcellus
17	7/5/18	10533	10693	47	Marcellus
18	7/6/18	10333	10493	47	Marcellus
19	7/6/18	10133	10293	47	Marcellus
20	7/7/18	9933	10093	47	Marcellus
21	7/7/18	9733	9893	47	Marcellus
22	7/8/18	9533	9693	47	Marcellus
23	7/8/18	9333	9493	47	Marcellus
24	7/9/18	9133	9293	47	Marcellus
25	7/9/18	8933	9093	47	Marcellus
26	7/10/18	8733	8893	47	Marcellus
27	7/10/18	8533	8693	47	Marcellus
28	7/10/18	9333	8493	47	Marcellus
29	7/11/18	8133	8293	47	Marcellus
30	7/12/18	7933	8093	47	Marcellus
31	7/12/18	7733	7893	47	Marcellus
32	7/12/18	7545	7693	47	Marcellus
33	7/13/18	7357	7505	47	Marcellus
34	7/13/18	7169	7317	47	Marcellus
35	7/14/18	6981	7129	47	Marcellus
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Please insert additional copies of this page if additional rows/stages are needed.

API: 47-051-01753	Well Name: John Hart	Well Number: Hart 6H
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STIMULATION INFORMATION / STAGE								
Complete a separate record for each stimulation stage. (Please insert additional lines for additional stages or additional pages as applicable).								
Stg No.	Stimulation 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)
1	7/2/16	94	8178	n/a	4489	1000380	20620	n/a
2	6/26/18	97.4	8231	5409	4299	399385	9572	n/a
3	6/26/18	99.9	8387	n/a	4405	399525	9623	n/a
4	6/27/18	99.3	8129	5184	4488	404046	10913	n/a
5	6/28/18	99.9	8422	6754	4584	399223	9674	n/a
6	6/28/18	99.6	8194	5864	4601	399754	9613	n/a
7	6/29/18	99.6	8445	5689	4603	399097	10464	n/a
8	6/30/18	99.6	8108	6004	4764	401634	9543	n/a
9	6/30/18	99.7	8372	6557	4638	403552	9505	n/a
10	7/1/18	100.2	8363	6742	4486	399252	9360	n/a
11	7/2/18	99.6	8079	6292	4413	399702	9525	n/a
12	7/2/18	99	8286	5624	4486	399130	9413	n/a
13	7/3/18	98.6	8388	6886	4549	400226	9548	n/a
14	7/3/18	99.4	8124	6053	4863	399733	9270	n/a
15	7/4/18	100	7929	6285	4712	399662	9421	n/a
16	7/4/18	100.1	8293	6590	4832	399622	9500	n/a
17	7/5/18	99.2	7799	5478	4473	399683	9347	n/a
18	7/6/18	99.9	8182	6453	4706	400034	9498	n/a
19	7/6/18	99.2	7876	6516	4399	399816	9419	n/a
20	7/7/18	99.2	8285	6084	4459	400074	9567	n/a
21	7/7/18	98.1	7837	6526	4473	399376	9328	n/a
22	7/8/18	98.7	7826	6563	4508	400409	9340	n/a
23	7/8/18	100.5	7663	6389	4586	400165	8869	n/a
24	7/9/18	100.6	8070	6133	4757	399582	9180	n/a
25	7/9/18	98.5	7758	7120	4603	399526	9291	n/a
26	7/10/18	100.6	7735	6779	4815	399272	9140	n/a
27	7/10/18	100.8	7411	6662	4799	399735	9269	n/a
28	7/10/18	100.3	7548	7127	4782	400525	9299	n/a
29	7/11/18	99.5	7351	6668	4808	400652	9162	n/a
30	7/12/18	100.8	7332	6653	4761	399522	9116	n/a
31	7/12/18	99.7	7668	6699	4782	400095	9054	n/a
32	7/12/18	96.7	8053	6560	4423	399640	9313	n/a
33	7/13/18	99.5	7222	6520	4752	398851	9041	n/a
34	7/13/18	99.1	7018	8075	4844	400058	8923	n/a
35	7/14/18	99	6821	5579	4737	400062	8932	n/a
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API: 47-051-01752	Farm Name: John Hart	Well Number: Hart 6H
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	TVD	Base TVD	MD	Base MD
Pittsburgh Coal			503	
Greenbrier			1793.56	1842.56
Burgoon			1842.56	2273.56
Weir			2273.56	2487.56
Berea			2487.56	2797.56
Gordon			2797.56	3078.32
U. Bayard			3078.32	6226.32
Sycamore Grit			6226.32	6318.32
Middlesex			6318.32	6,572
BRKT	6,422	6,434	6,572	6,594
TLLY	6,434	6,463	6,594	6,650
S5	6,463	6,554	6,650	6,903
S3	6,554	6,569	6,903	6,965
STFD*	6,569	6,571	6,965	6,975
S2.B	6,571	6,583	6,975	7,070
S2.A	6,583		7,070	

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API: 47-051-01752	Farm Name: John Hart	Well Number: Hart 6H
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DRILLING CONTRACTORS		
Driller	Driller	Driller
Name Rocky Mountain Drilling	Name Highlands Drilling LLC	Name Nabors Drilling USA
Address 185 North Vernal Avenue, Suite 2	Address 900 Virginia Street East	Address 10100 NW 10th Street
City - State - Zip Vernal, UT 84078	City - State - Zip Charlestown, WV 25301	City - State - Zip Oklahoma City, OK 73127

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	7/2/2016
Job End Date:	7/2/2016
State:	West Virginia
County:	Marshall
API Number:	47-051-01752-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Hart 6H
Latitude:	39.91353111
Longitude:	-80.56493167
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,492
Total Base Water Volume (gal):	864,967
Total Base Non Water Volume:	0

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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	Schlumberger	N/A					
			Water (Including Mix Water Supplied by Client)*	7732-18-5		87.70002	
S012-4070	Schlumberger	Propping Agent					
				Listed Below			

submitted 7/28/14

H315	Schlumberger	Acid					
				Listed Below			
L058	Schlumberger	Iron Control Agent					
				Listed Below			
U042	Schlumberger	Chelating Agent					
				Listed Below			
S100	Schlumberger	Fluid Loss Additive					
				Listed Below			
M300	Schlumberger	Myacide TS GA 25					
				Listed Below			
A264A	Schlumberger	Corrosion Inhibitor					
				Listed Below			
B317	Schlumberger	Scale Inhibitor					
				Listed Below			
B466	Schlumberger	Moderate Salinity Friction Reducer					
				Listed Below			
Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients							
			Quartz, Crystalline silica	14808-60-7	98.81282	12.15396	
			Hydrochloric acid	7647-01-0	0.51446	0.06328	

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		RECEIVED Office of Oil and Gas DEC 4 2018 WV Department of Environmental Protection	2-Propenoic acid, ammonium salt, polymer with 2-propenamide, sodium salt	910644-97-2	0.19692	0.02422	
			Distillates, petroleum, hydrotreated light	64742-47-8	0.18233	0.02243	
			Glutaraldehyde	111-30-8	0.10289	0.01266	
			Ammonium sulfate	7783-20-2	0.08023	0.00987	
			Tetrasodium ethylenediaminetetraacet ate	64-02-8	0.06225	0.00766	
			Ammonium acetate	631-61-8	0.04376	0.00538	
			Alcohols, C10-16, ethoxylated	68002-97-1	0.02656	0.00327	
			Alcohols, C12-C16, ethoxylated	68551-12-2	0.02626	0.00323	
			Alcohols, C12-C14, ethoxylated	68439-50-9	0.02626	0.00323	
			Sodium thiosulphate	7772-98-7	0.02188	0.00269	
			Sorbitan monooleate	1338-43-8	0.02188	0.00269	
			Ethanol, 2,2',2'- nitrilotris-, 1,1',1"-tris (dihydrogen phosphate), sodium salt	68171-29-9	0.01717	0.00211	
			Ethoxylated oleylamine	26635-93-8	0.01094	0.00135	
			Trisodium ortho phosphate	7601-54-9	0.00755	0.00093	
			Quaternary ammonium compounds, ethylbis (hydroxyethyl)tallow alkyl, ethoxylated, Et sulfates (salts)	68071-95-4	0.00620	0.00076	
		Sodium Glycolate (impurity)	2836-32-0	0.00505	0.00062		
		Sodium erythorbate	6381-77-7	0.00395	0.00049		
		Methanol	67-56-1	0.00263	0.00032		
		Ethylene Glycol	107-21-1	0.00215	0.00026		
		Sodium hydroxide	1310-73-2	0.00168	0.00021		

			Trisodium Ethylenediaminetetraacetate (impurity)	150-38-9	0.00168	0.00021	
			Disodium Ethylene Diamine Tetra Acetate (impurity)	139-33-3	0.00168	0.00021	
			Reaction product of: acetophenone, formaldehyde, cyclohexylamine, methanol and acetic acid	224635-63-6	0.00109	0.00013	
			Trisodium nitrilotriacetate (impurity)	5064-31-3	0.00084	0.00010	
			Propan-2-ol	67-63-0	0.00073	0.00009	
			Cinnamaldehyde	104-55-2	0.00060	0.00007	
			Alcohol, C9-C11, Ethoxylated	68439-46-3	0.00045	0.00006	
			Acetic acid(impurity)	64-19-7	0.00012	0.00001	
			Acetophenone	98-86-2	0.00011	0.00001	
			Amines, tallow alkyl, ethoxylated	61791-26-2	0.00009	0.00001	
			Formaldehyde (impurity)	50-00-0	0.00007	0.00001	
			2-Propenamid (impurity)	79-06-1	0.00007	0.00001	

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* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

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

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)

Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	6/26/2018
Job End Date:	7/14/2018
State:	West Virginia
County:	Marshall
API Number:	47-01-01752-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Hart 6H
Latitude:	39.91353100
Longitude:	-80.65493100
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,584
Total Base Water Volume (gal):	13,445,124
Total Base Non Water Volume:	

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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
Sand (Proppant)	Universal Pressure Pumping	Proppant					
				Listed Below			
Unihib G	Universal Pressure Pumping	Acid Inhibitor					

Submitted 8/17/18

				Listed Below		
Scale Inhibitor E	Universal Pressure Pumping	Scale Inhibitor			RECEIVED Office of Oil and Gas DEC 4 2018 WV Department of Environmental Protection	
				Listed Below		
Iron Control A	Universal Pressure Pumping	Iron Control Agent				
				Listed Below		
Unislick ST50	Universal Pressure Pumping	Friction Reducer				
				Listed Below		
Water	Chevron Appalachia, LLC	Carrier/Base Fluid				
				Listed Below		
Hydrochloric Acid (7.5%)	Universal Pressure Pumping	Acidizing				
				Listed Below		
K-Bac 1020	Universal Pressure Pumping	Biocide				
				Listed Below		
Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.						
			Water	7732-18-5	100.00000	88.13771
			Silica	14808-60-7	99.90000	10.67320
			Hydrogen Chloride	7647-01-0	7.50000	0.07991
			Petroleum Distillates, Hydrotreated Light	64742-47-8	30.00000	0.01991

			Ammonium Acetate	631-61-8	13.00000	0.00863	RECEIVED Office of Oil and Gas DEC 4 2018 WV Department of Environmental Protection
			Polyethylene Glycol	25322-68-3	50.00000	0.00654	
			Ethylene Glycol	107-21-1	30.00000	0.00557	
			Water	7732-18-5	30.00000	0.00392	
			Alcohols, ethoxylated	68002-97-1	5.00000	0.00332	
			Alcohols, ethoxylated	68551-12-2	5.00000	0.00332	
			Alcohols, ethoxylated	68439-50-9	5.00000	0.00332	
			Copolymer of Maleic and Acrylic Acid	52255-49-9	20.00000	0.00281	
			2,2-Dibromo-3- nitrilopropionamide	10222-01-2	21.00000	0.00275	
			DETA phosphonate	15827-60-8	5.00000	0.00070	
			Hexamethylene Triamine Penta(Methylene Phosphonic Acid)	34690-00-1	5.00000	0.00070	
			Butyl diglycol	112-34-5	75.00000	0.00063	
			Alcohols, C10-16, ethoxylated	68002-97-1	50.00000	0.00042	
			Methanol	67-56-1	5.00000	0.00004	
			Formaldehyde	50-00-0	1.00000	0.00001	
			Thiourea	62-56-6	1.00000	0.00001	

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

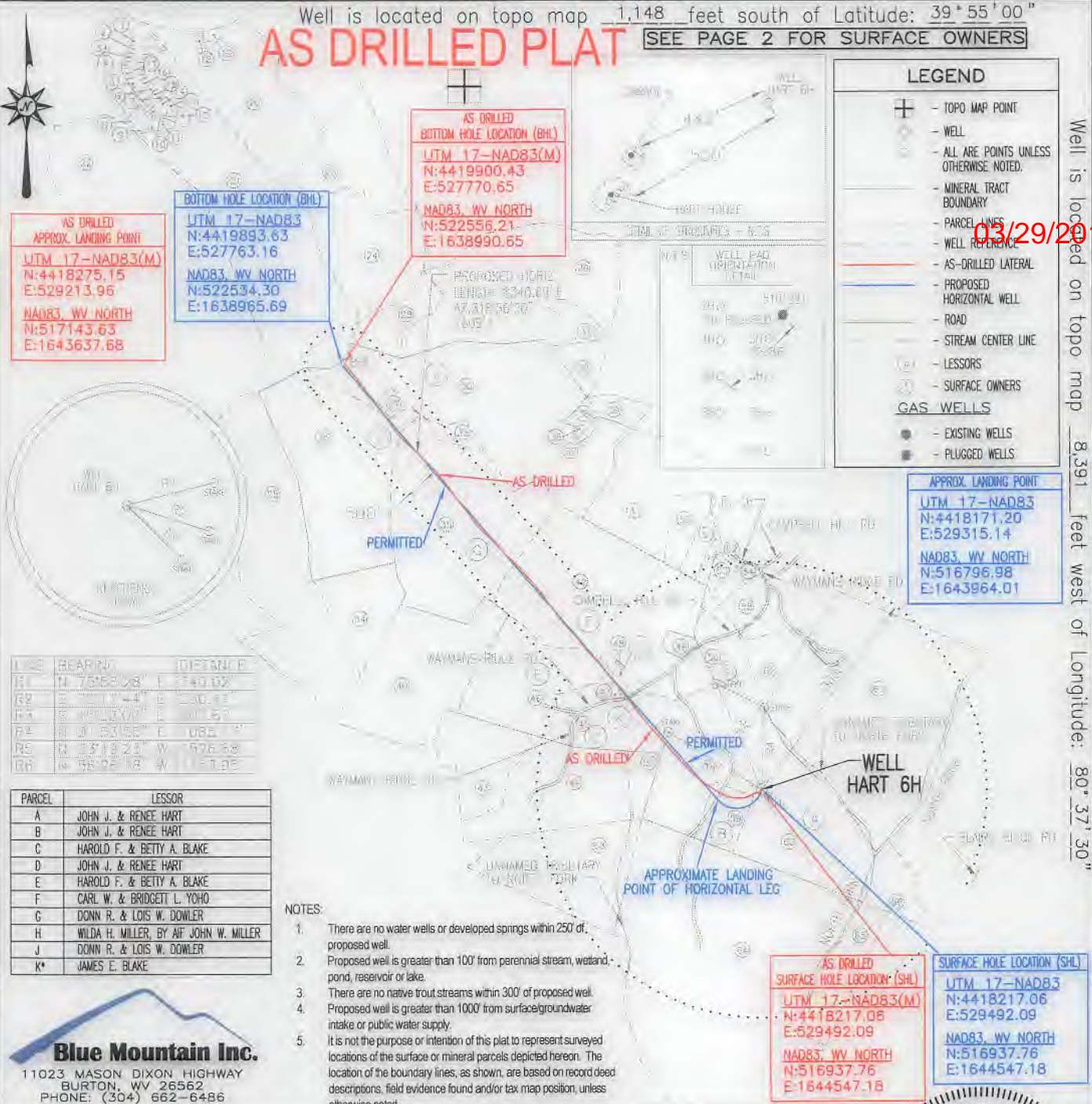
** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

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)

Well is located on topo map 1,148 feet south of Latitude: 39° 55' 00"
AS DRILLED PLAT **SEE PAGE 2 FOR SURFACE OWNERS**



AS DRILLED APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4418275.15
 E:529213.96
 NAD83, WV NORTH
 N:517143.63
 E:1643637.68

BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
 N:4419893.63
 E:527763.16
 NAD83, WV NORTH
 N:522534.30
 E:1638965.69

AS DRILLED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4419900.43
 E:527770.65
 NAD83, WV NORTH
 N:522556.21
 E:1638990.65

APPROX. LANDING POINT
 UTM 17-NAD83
 N:4418171.20
 E:529315.14
 NAD83, WV NORTH
 N:516796.98
 E:1643964.01

AS DRILLED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4418217.06
 E:529492.09
 NAD83, WV NORTH
 N:516937.76
 E:1644547.18

SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4418217.06
 E:529492.09
 NAD83, WV NORTH
 N:516937.76
 E:1644547.18

LINE	BEARING	DISTANCE
R1	N 78°52'28" E	149.02
R2	S 81°17'44" E	230.43
R3	S 81°12'00" E	101.57
R4	N 01°53'00" E	085.57
R5	N 53°13'22" W	676.58
R6	N 58°02'48" W	171.05

PARCEL	LESSOR
A	JOHN J. & RENEE HART
B	JOHN J. & RENEE HART
C	HAROLD F. & BETTY A. BLAKE
D	JOHN J. & RENEE HART
E	HAROLD F. & BETTY A. BLAKE
F	CARL W. & BRIDGETT L. YOHO
G	DONN R. & LOIS W. DOWLER
H	WILDA H. MILLER, BY AIF JOHN W. MILLER
J	DONN R. & LOIS W. DOWLER
K*	JAMES E. BLAKE

- NOTES:
- There are no water wells or developed springs within 250' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

FILE #: HART 6H AS-DRILLED
 DRAWING #: HART 6H AS-DRILLED
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: *George D. Six*
 R.P.E.: _____ L.L.S.: P.S. No. 2000



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: APRIL 28, 2016
 OPERATOR'S WELL #: HART 6H AS-DRILLED
 API WELL #: 47 51 01752
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1329.18'
 COUNTY/DISTRICT: MARSHALL / WASHINGTON QUADRANGLE: MOUNDSVILLE, WV 7.5'
 SURFACE OWNER: JOHN J. & RENEE HART ACREAGE: 108.550±
 OIL & GAS ROYALTY OWNER: JOHN J. & RENEE HART ACREAGE: 541.741±

DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,584.54'± TMD: 14,262'±
 WELL OPERATOR CHEVRON APPALACHIA, LLC DESIGNATED AGENT KENNETH E. TAWNEY
 Address 800 MOUNTAIN VIEW DRIVE Address 500 LEE STREET, EAST SUITE 1600
 City SMITHFIELD State PA Zip Code 15478 City CHARLESTON State WV Zip Code 25301-3202

Well is located on topo map 8,391 feet west of Longitude: 80° 37' 30"

03/29/2019

HART 6H

	SURFACE OWNER	DIST-TM/PAR
1	KENNETH C. FAST ET UX	14-7A/29
2	KENNETH C. FAST ET UX	14-7A/28
3	STEVEN S. ANDERSON ET UX	14-7A/27
4	BETH A. MCCLELLAN	14-7A/26
5	DAVID A. HOSKINS ET UX	14-7A/24
6	TERRY R. REYNOLDS ET UX	14-7A/22
7	JANET D. S. TAN	14-7A/20
8	DANIEL G. MELCHIORI ET UX	14-7A/13
9	DANIEL G. MELCHIORI ET UX	14-7A/14
10	JANET D. S. TAN	14-7A/15
11	JANET D. S. TAN	14-7A/16
12	JANET D. S. TAN	14-7A/17
13	JANET D. S. TAN	14-7A/18
14	JANET D. S. TAN	14-7A/19
15	VERONICA KRAMPE - LIFE	14-7A/21
16	DAVID A. HOSKINS ET UX	14-7A/23
17	MARK A. KARL	14-7A/25
18	MARY L. HANLEY	14-7/38.2
19	RICHARD F. LAMBIE JR.	14-7/38.1
20	RICHARD F. LAMBIE JR.	14-7/38.3
21	WILLIAM H. III & LINDA BARDALL	14-7/41
22	WILLIAM H. III & LINDA BARDALL	14-7/42
23	JERRY E. SCHWING ET UX	14-7/39
24	MARSHALL COUNTY 4-H LEADERS	14-7/40
25	JOHN W. & MARY A. MILLER	14-10/3
26	JOHN W. & MARY A. MILLER	14-6/41
27	JEFFREY L. & JANET L. ALLEN	14-6/40
28	JOHN R. REGAN & CONNIE L. THOMAS	14-6/1
29	JOHN R. REGAN & CONNIE THOMAS	14-6/2
30	JEFFREY L. & JANET L. ALLEN	14-6/38
31	DANIEL R. WOOD - SHAWN ALLMAN	14-6/2.1
32	JOHN R. REGAN & CONNIE L. THOMAS	14-6/3.3
33	JEFFREY L. & JANET L. ALLEN	14-6/39
34	MARY LOU RUBINI	14-6/41.1
35	JEFFREY L. & JANET L. ALLEN	14-6/37
36	BERRIDGE L. ALLEN ET UX	14-6/38.1
37	BERRIDGE L. ALLEN ET UX	14-6/38.2
38	BERRIDGE L. ALLEN ET UX	14-6/38.3
39	MARC A. MOLOSKI ET UX	14-6/3.1
40	DENNIS BLAKE ET UX	14-10/10
41	GARY V. SINGER ET UX	14-6/34.7
42	CARL W. & BRIDGETT L. YOHO	14-6/35
43	DENNIS BLAKE ET UX	14-10/12
44	JAMES E. CURRY	14-10/13
45	JOHN J. II & JENNA E. HART	14-10/11
46	DENNIS & MICHELLE S. BLAKE	14-10/11.3
47	JAMES E. BLAKE	14-10/11.1
48	JOHN J. HART ET UX	14-6/36
49	CARL W. YOHO ET AL	14-6/35.1
50	GARY A. STROPE	14-6/34.10
51	JAMES D. & DONNA J. DRAKE	14-6/34
52	JENNIFER B. READ	14-6/34.5
53	JERRY S. WHORTON ET UX	14-6/29.1
54	RODNEY J. & CARRIE L. FONNER	14-6/29
55	MARTIN D. FONNER JR. ET UX	14-6/29.2
56	CARL W. & BRIDGETT L. YOHO	14-6/28.1
57	JOHN J. HART ET UX	14-10/14
58	JAMES E. CURRY	14-10/15
59	JOHN J. & RENEE HART	14-10/19
60	JOHN J. & RENEE HART	14-10/19.1
61	CARL W. & BRIDGETT L. YOHO	14-6/28
62	JEFFREY D. & DENISE A. CRAMER	14-6/27
63	JEFFREY D. & DENISE A. CRAMER	14-10/20
64	JOHN J. HART ET UX	14-10/18
65	JOHN A. BIERCE II ET UX	15-15/3
66	HEIKKI & TRISHA YEAGER	15-15/8.6

03/29/2019

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E:1638990.65