



03/29/2019

**Jackie M. Scholar**  
Regulatory Reporting Coordinator

**CERTIFIED MAIL: 7016 0340 0000 4903 5778**

November 27, 2018

WV DEP  
Office of Oil and Gas  
601 – 57<sup>th</sup> Street  
Charleston, WV 25304


RE: Well Operator's Report of Well Work WR-35  
**Hart 9H**

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 9H, (API 47-051-01755)**.

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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WR-35  
Rev. 8/23/13

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

API 47 - 051 - 01755 County Marshall District Washington  
Quad Moundsville Pad Name Hart Field/Pool Name \_\_\_\_\_  
Farm name John J. & Renee Hart Well Number Hart 9H  
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 516907.04 Easting 1644566.69  
Landing Point of Curve Northing 516552.57 Easting 1645126.69  
Bottom Hole Northing 510500.69 Easting 1850260.80

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 stabilizers

Date permit issued 6/16/14 Date drilling commenced 10/7/14 Date drilling ceased 9/12/15  
Date completion activities began 6/7/18 Date completion activities ceased 11/20/18  
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 by: J. [Signature]  
3/28/18

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API 47-051 - 01755

Farm name John J. & Renee Hart

Well number Hart 9H

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"	303'	New	J-55; 94		Y
Coal	17 1/2"	13 3/8"	895'	New	J-55; 54.50		Y
Intermediate 1	12 1/4"	9 5/8"	2209'	New	L-80; 40		Y
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	14822'	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 <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Bulk Cement	Bulk Cement				Surface	8
Surface	Class A	597	15.6	1.20	746	Surface	8
Coal	Class A	140	15.6	1.20	168	Surface	8
Intermediate 1	Class A	749	15.6	1.20	898	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	Lead: 1384; Tail: 1509	Lead & Tail: 15.2	Lead & Tail: 1.26	Lead: 1743; Tail: 1901	500' below 9 5/8" shoe, as planned	8
Tubing							

Drillers TD (ft) 14847'

Loggers TD (ft) 14847'

Deepest formation penetrated Marcellus

Plug back to (ft) \_\_\_\_\_

Plug back procedure \_\_\_\_\_

Kick off depth (ft) 5786'

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 These 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 \_\_\_\_\_

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API 47- 051 - 01755 Farm name John J. & Renee Hart Well number Hart 9H

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 - 01755 Farm name John J. & Renee Hart Well number Hart 9H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
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 <sub>2</sub> 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 Universal Pressure Pumping  
Address 18360 Technology Drive City Meadville State PA Zip 16335

Please insert additional pages as applicable.

Completed by Jackie M. Scholar Telephone 412-865-3422  
Signature *Jackie M. Scholar* Title Regulatory Compliance & Permitting Manager Date 11/27/18

API: 47-051-01755	Farm Name: John Hart	Well Number: Hart 9H
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<b>PERFORATION RECORD</b>					
Stage No.	Perforation Date	Perforated From TMD Ft.	Perforated To TMD Ft.	Number of Perforations	Formation(s)
1	8/2/18	14630	14790	47	Marcellus
2	8/2/18	14430	14590	47	Marcellus
3	8/3/18	14230	14390	47	Marcellus
4	8/3/18	14030	14190	47	Marcellus
5	8/3/18	13830	13990	47	Marcellus
6	8/4/18	13630	13790	47	Marcellus
7	8/4/18	13430	13590	47	Marcellus
8	8/4/18	13230	13390	47	Marcellus
9	8/5/18	13030	13190	47	Marcellus
10	8/5/18	12830	12990	47	Marcellus
11	8/5/18	12630	12790	47	Marcellus
12	8/6/18	12430	12590	47	Marcellus
13	8/6/18	12230	12390	47	Marcellus
14	8/6/18	12030	12190	47	Marcellus
15	8/7/18	11830	11990	47	Marcellus
16	8/7/18	11630	11790	47	Marcellus
17	8/8/18	11430	11590	47	Marcellus
18	8/8/18	11230	11390	47	Marcellus
19	8/8/18	11030	11190	47	Marcellus
20	8/9/18	10830	10990	47	Marcellus
21	8/9/18	10630	10790	47	Marcellus
22	8/10/18	10430	10590	47	Marcellus
23	8/10/18	10230	10390	47	Marcellus
24	8/10/18	10030	10190	47	Marcellus
25	8/10/18	9830	9990	47	Marcellus
26	8/11/18	9630	9790	47	Marcellus
27	8/11/18	9430	9590	47	Marcellus
28	8/11/18	9230	9390	47	Marcellus
29	8/12/18	9030	9190	47	Marcellus
30	8/12/18	8830	8990	47	Marcellus
31	8/12/18	9630	8790	47	Marcellus
32	8/13/18	8430	8590	47	Marcellus
33	8/13/18	8230	8390	47	Marcellus
34	8/13/18	8030	8190	47	Marcellus
35	8/14/18	7830	7990	47	Marcellus
36	8/14/18	7630	7790	47	Marcellus
37	8/14/18	7430	7590	47	Marcellus
38	8/15/18	7230	7390	47	Marcellus
39	8/15/18	7030	7190	47	Marcellus
40					

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Please insert additional copies of this page if additional rows/stages are needed.

API: 47-051-01755	Well Name: John Hart	Well Number: Hart 9H
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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	8/2/18	88.8	8986	n/a	4819	398507	9320	n/a
2	8/2/18	88.8	8779	6524	4970	400810	9664	n/a
3	8/3/18	96.7	8879	6380	4822	401567	9787	n/a
4	8/3/18	97.1	8946	6520	4940	399816	9560	n/a
5	8/3/18	99.9	8998	6388	4852	402646	9756	n/a
6	8/4/18	89.4	8701	6456	4796	402139	9790	n/a
7	8/4/18	97.8	8457	6300	4820	400917	9541	n/a
8	8/4/18	98.9	8423	6288	4983	401600	9794	n/a
9	8/5/18	99.4	8472	6806	5059	400948	9602	n/a
10	8/5/18	100.2	8363	6669	4986	399653	9562	n/a
11	8/5/18	99.6	8474	6224	5067	399954	9555	n/a
12	8/6/18	100.1	8517	5920	4936	401217	9533	n/a
13	8/6/18	99.4	8360	6952	4965	399967	9504	n/a
14	8/6/18	99.6	8235	6789	4740	400944	9727	n/a
15	8/7/18	96.7	8185	7235	4869	399877	9362	n/a
16	8/7/18	98.7	8262	6948	4985	399963	9527	n/a
17	8/8/18	99.8	8033	6513	4845	400022	9393	n/a
18	8/8/18	99.7	8073	6905	4835	391474	9354	n/a
19	8/8/18	99.5	7915	6621	4829	400892	9532	n/a
20	8/9/18	100.1	7901	6888	4985	403403	9470	n/a
21	8/9/18	99.3	8081	6877	5006	400511	9438	n/a
22	8/10/18	99	8178	6933	4846	400095	9328	n/a
23	8/10/18	99.9	7978	6397	4803	400986	9413	n/a
24	8/10/18	99.7	8294	6813	4863	400107	9410	n/a
25	8/10/18	99	7909	7094	4837	403205	9473	n/a
26	8/11/18	100.4	7780	6364	5055	401461	9408	n/a
27	8/11/18	100.5	7807	6466	4810	399884	9473	n/a
28	8/11/18	99.5	7768	7669	4768	400052	9093	n/a
29	8/12/18	100.2	7455	6193	4962	401169	9309	n/a
30	8/12/18	100.3	7605	7165	4909	399815	9219	n/a
31	8/12/18	100.3	7504	6957	4803	401479	9348	n/a
32	8/13/18	99.5	7680	6744	4971	400416	9305	n/a
33	8/13/18	100.4	7904	6325	5063	399677	9321	n/a
34	8/13/18	98.5	7473	6628	5057	401749	9325	n/a
35	8/14/18	100.1	7359	6437	5040	400489	9270	n/a
36	8/14/18	100.4	7210	6711	4893	402169	9321	n/a
37	8/14/18	100.5	7065	7737	4863	399921	9143	n/a
38	8/15/18	100.3100.5	7102	6813	5118	399857	9351	n/a
39	8/15/18		6991	7041	4867	420950	9492	n/a
40								

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API: 47-051-01755	Farm Name: John J. & Renee Hart	Well Number: Hart 9H
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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	6509
BRKT	6,434	6,444	6509	6525
TLLY	6,444	6,475	6525	6581
S5	6,475	6,571	6581	6818
S3	6,571	6,590	6818	6881
STFD*	6,590	6,593	6881	6895
S2.B	6,593	6,602	6895	6945
S2.A	6,602		6945	

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API: 47-051-01755	Farm Name: John J. & Renee Hart	Well Number: Hart 9H
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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:	8/2/2018
Job End Date:	8/15/2018
State:	West Virginia
County:	Marshall
API Number:	47-051-01755-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Hart 9H
Latitude:	39.91344700
Longitude:	-80.65486000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,740
Total Base Water Volume (gal):	15,488,466
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
Hydrochloric Acid (7.5%)	Universal Pressure Pumping	Acidizing					
				Listed Below			
Scale Inhibitor E	Universal Pressure Pumping	Scale Inhibitor					

submitted 8/22/18

				Listed Below			
Iron Control A	Universal Pressure Pumping	Iron Control Agent					
				Listed Below			
K-Bac 1020	Universal Pressure Pumping	Biocide					
				Listed Below			
Unihib G	Universal Pressure Pumping	Acid Inhibitor					
				Listed Below			
Unislick ST50	Universal Pressure Pumping	Friction Reducer					
				Listed Below			
Water	Chevron Appalachia, LLC	Carrier/Base Fluid					
				Listed Below			
Sand (Proppant)	Universal Pressure Pumping	Proppant					
				Listed Below			

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Items above are Trade Names with the exception of Base Water . Items below are the individual ingredients.

			Water	7732-18-5	100.00000	88.16359	
			Silica	14808-60-7	99.90000	10.65775	
			Hydrochloric Acid	7647-01-0	7.50000	0.07947	
			Petroleum Distillates, Hydrotreated Light	64742-47-8	30.00000	0.01895	

			Ammonium Acetate	631-61-8	13.00000	0.00821	
			Polyethylene Glycol	25322-68-3	50.00000	0.00595	
			Ethylene Glycol	107-21-1	30.00000	0.00553	
			Water	7732-18-5	30.00000	0.00357	
			Alcohols, ethoxylated	68439-50-9	5.00000	0.00316	
			Alcohols, ethoxylated	68551-12-2	5.00000	0.00316	
			Alcohols, ethoxylated	68002-97-1	5.00000	0.00316	
			Copolymer of Maleic and Acrylic Acid	52255-49-9	20.00000	0.00281	
			2,2-Dibromo-3-nitrilopropionamide	10222-01-2	21.00000	0.00250	
			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	0.00062	
			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	

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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)



Well is located on topo map 1,179 feet south of Latitude: 39° 55' 00"

# AS DRILLED PLAT

AS DRILLED  
SURFACE HOLE LOCATION (SHL)  
UTM 17-NAD83(M)  
N:4418207.80  
E:529498.19  
NAD83\_WV NORTH  
N:516907.04  
E:1644566.69

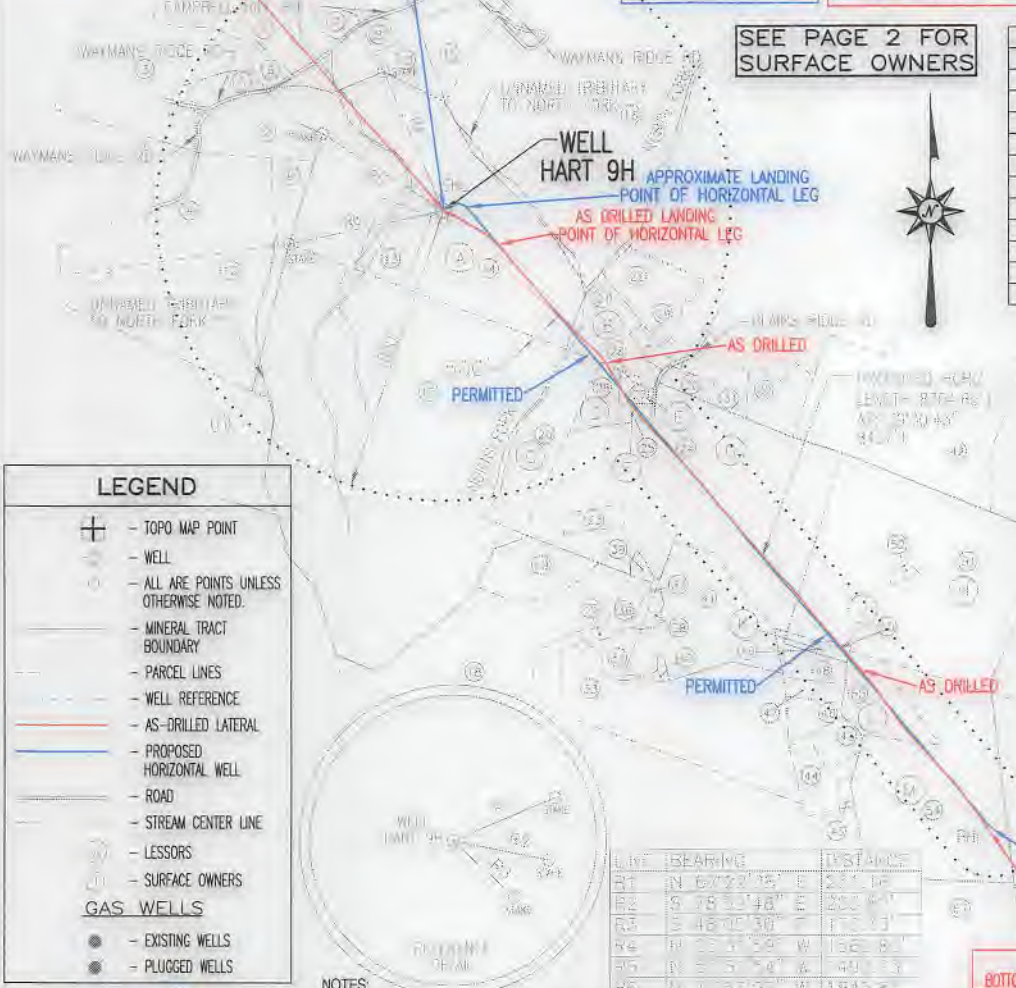
SURFACE HOLE LOCATION (SHL)  
UTM 17-NAD83  
N:4418207.80  
E:529498.19  
NAD83\_WV NORTH  
N:516907.04  
E:1644566.69

APPROX. LANDING POINT  
UTM 17-NAD83  
N:4418218.03  
E:529570.85  
NAD83\_WV NORTH  
N:516936.62  
E:1644805.69

AS DRILLED  
APPROX. LANDING POINT  
UTM 17-NAD83(M)  
N:4418102.66  
E:529670.60  
NAD83\_WV NORTH  
N:516552.57  
E:1645126.69



Well is located on topo map 8,371 feet west of Longitude: 80° 37' 30"



SEE PAGE 2 FOR SURFACE OWNERS

PARCEL	LESSOR
A	JOHN J. & RENEE HART
B	RICHARD A. & RUTH B. GAMES
C	JOHN A. II & LINDA JO BIERCE
D	JOHN A. II & LINDA JO BIERCE
E	JOHN A. II & LINDA JO BIERCE
F	JOHN B. & LORI E. KESTNER
G	HONLUS A. STOLLAR
H	JOHN D. & SHARON M. EBBERT
J	FRANKLIN J. & ARLENE F. PIERSON
K	FRANKLIN J. & ARLENE F. PIERSON
L	GEORGE & VERCHIE HIGGINBOTHAM
M	CHRISTOPHER D. & SANDRA D. O'NEIL

03/29/2019

**LEGEND**

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL REFERENCE
- AS-DRILLED LATERAL
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- LESSORS
- SURFACE OWNERS
- GAS WELLS**
- EXISTING WELLS
- PLUGGED WELLS

**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.

LINE	BEARING	DISTANCE
R1	N 67°22'45" E	237.16'
R2	S 78°33'48" E	332.40'
R3	S 48°01'30" E	172.03'
R4	N 32°45'00" W	156.84'
R5	N 5°55'00" W	491.33'
R6	N 1°18'00" W	184.25'

AS DRILLED  
BOTTOM HOLE LOCATION (BHL)  
UTM 17-NAD83(M)  
N:4416285.09  
E:531265.56  
NAD83\_WV NORTH  
N:510500.69  
E:1650260.80

BOTTOM HOLE LOCATION (BHL)  
UTM 17-NAD83  
N:4418291.02  
E:531272.48  
NAD83\_WV NORTH  
N:510519.77  
E:1650283.84

**Blue Mountain Inc.**  
11023 MASON DIXON HIGHWAY  
BURTON, WV 25662  
PHONE: (304) 662-6486

FILE #: HART 9H AS-DRILLED  
DRAWING #: HART 9H 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: *[Signature]*  
R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2000

**GEORGE D. SIX**  
LICENSED  
No. 2000  
STATE OF WEST VIRGINIA  
PROFESSIONAL SURVEYOR

PLACE SEAL HERE

(+) 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 9H AS-DRILLED  
API WELL #: 47 51 01755  
STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1328.92'  
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: 668.435±

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: 6,740.49'± TMD: 14,879'±  
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



# HART 9H

03/29/2019

	SURFACE OWNER	DIST-TM/PAR
1	CARL W. & BRIDGETT L. YOHO	14-6/35
2	JOHN J. II & JENNA E. HART	14-10/11
3	DENNIS & MICHELLE S. BLAKE	14-10/11.3
4	JAMES E. CURRY	14-10/13
5	JAMES E. BLAKE	14-10/11.1
6	JOHN J. HART ET UX	14-6/36
7	CARL W. YOHO ET AL	14-6/35.1
8	CARL W. & BRIDGETT L. YOHO	14-6/28.1
9	JOHN J. HART ET UX	14-10/14
10	CARL W. & BRIDGETT L. YOHO	14-06/28
11	JOSEPH M. CROW ET UX	14-10/17
12	JAMES E. CURRY	14-10/15
13	JOHN J. & RENEE HART	14-10/19
14	JOHN J. & RENEE HART	14-10/19.1
15	JEFFREY D. & DENISE A. CRAMER	14-6/27
16	JEFFREY D. & DENISE A. CRAMER	14-10/20
17	JOHN J. HART ET UX	14-10/18
18	VERNON KNOX JR. ET UX	15-15/1
19	VERNON KNOX JR. ET UX	15-15/2
20	JOHN A. BIERCE II ET UX	15-15/3
21	HEIKKI & TRISHA YEAGER	15-15/8.6
22	JOHN E. DRAKE ET UX	15-15/8.16
23	KANDY J & ANTHONY E BLATT	15-15/9.1
24	HONUS A. STOLLAR	15-15/9
25	JOHN B. KESTNER ET UX	15-15/5
26	JOHN A. BIERCE II ET UX	15-15/4
27	JOHN A. BIERCE II ET UX	15-15/6
28	JOHN A. BIERCE II ET UX	15-15/7
29	LARRY D. STERN	15-15/8.14
30	ERIC & CHRISTINA KESTNER	15-15/8.18
31	CHRISTOPHER R. & DANIELLE KING	15-15/8.9
32	JOHN M. SKRYPEK ET UX	15-15/8.10
33	PAULINE LOU LILLEY - LIFE	15-15/15
34	JERRY IVAN & CAROLYN LILLEY	15-15/12
35	MARK O. PETTIT	15-15/12.1
36	NATHAN J. & SHANEY M. LILLEY	15-15/12.3
37	JERRY LILLEY ET UX	15-15/12.2
38	JERRY LILLEY ET UX	15-15/11.1
39	M E CHURCH	15-15/10
40	NATHAN J. & SHANEY M. LILLEY	15-15/11.2
41	JERRY IVAN & CAROLYN LILLEY	15-15/11
42	STEVEN & JOYCE ROBINSON ET AL	15-15/26
43	CHARLES BURKIEVICZ	15-15/19
44	CARL WILLIAM ERNEST JR	15-15/19.2
45	CARL WILLIAM ERNEST JR	15-15/19.1
46	ALLEN E. PETHTEL	15-15/19.3
47	ETHAN M J ULLUM	15-15/20
48	FRANKLIN J. PIERSON ET UX	15-15/21
49	FRANKLIN PIERSON ET UX	15-15/22
50	FRANKLIN J. PIERSON ET UX	15-15/24.2
51	JOHN D. EBBERT JR ET UX	15-15/24
52	EVELYN J. GAMBLE	15-15/24.1
53	JOHN A. BIERCE ET UX	14-6/18.4
54	CHRISTOPHER D. & SANDRA O'NEIL	15-15/18
55	CHRISTOPHER D. & SANDRA O'NEIL	15-15/23
56	PHILIP ALAN KITTLE	15-15/25
57	TIMOTHY G. DUNLAP ET UX	15-16/19
58	PHILIP ALAN KITTLE	15-15/35

SURFACE HOLE LOCATION (SHL)  
UTM 17-NAD83  
N:4418207.80  
E:529498.19  
NAD83, WV NORTH  
N:516907.04  
E:1644566.69

AS DRILLED  
SURFACE HOLE LOCATION (SHL)  
UTM 17-NAD83(M)  
N:4418207.80  
E:529498.19  
NAD83, WV NORTH  
N:516907.04  
E:1644566.69

APPROX. LANDING POINT  
UTM 17-NAD83  
N:4418218.03  
E:529570.85  
NAD83, WV NORTH  
N:516936.62  
E:1644805.69

AS DRILLED  
APPROX. LANDING POINT  
UTM 17-NAD83(M)  
N:4418102.66  
E:529670.60  
NAD83, WV NORTH  
N:516552.57  
E:1645126.69

BOTTOM HOLE LOCATION (BHL)  
UTM 17-NAD83  
N:4416291.02  
E:531272.48  
NAD83, WV NORTH  
N:510519.77  
E:1650283.84

AS DRILLED  
BOTTOM HOLE LOCATION (BHL)  
UTM 17-NAD83(M)  
N:4416285.09  
E:531265.56  
NAD83, WV NORTH  
N:510500.69  
E:1650260.80

**APRIL 28, 2016**