



03/29/2019

Jackie M. Scholar
Regulatory Reporting Coordinator

CERTIFIED MAIL: 7016 0340 0000 4903 5822

December 12, 2018

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

RE: Well Operator's Report of Well Work WR-35
Hart 5H

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 5H, (API 47-051-01751)**.

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 - 01751 County Marshall District Washington
Quad Moundsville Pad Name Hart Field/Pool Name _____
Farm name John Hart Well Number Hart 5H
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 516935.62 Easting 1644567.17
Landing Point of Curve Northing 517425.10 Easting 1646129.93
Bottom Hole Northing 511288.08 Easting 1651338.99

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 10/3/14 Date drilling ceased 8/22/15
Date completion activities began 6/7/18 Date completion activities ceased 12/3/18
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' from GL Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by: [Signature]
3/23/19

WR-35
Rev. 8/23/13

API 47-051 - 01751 Farm name John Hart Well number Hart 5H

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"	333'	New	J-55; 94		Y
Coal	17 1/2"	13 3/8"	894'	New	J-55; 54.50		Y
Intermediate 1	12 1/4"	9 5/8"	2199'	New	L-80; 40		Y
Intermediate 2							
Intermediate 3							
Production	8 1/2"	5 1/2"	15418'	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	596	15.6	1.20	715	Surface	8
Coal	Class A	840	15.6	1.20	1008	Surface	8
Intermediate 1	Class A	815	15.6	1.18	961	Surface	8
Intermediate 2							
Intermediate 3							
Production	Class A	Lead: 1363; Tail: 1524	Lead & Tail: 15.2	Lead & Tail: 1.26	Lead: 1717; Tail: 1920	500' below 9 5/8" shoe, as planned	8
Tubing							

Drillers TD (ft) 15439' Loggers TD (ft) 15439'
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 4460'

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

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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: 47-051-01751	Farm Name: John Hart	Well Number: Hart 5H
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PERFORATION RECORD					
Stage No.	Perforation Date	Perforated From TMD Ft.	Perforated To TMD Ft.	Number of Perforations	Formation(s)
1	7/17/18	15226	15386	47	Marcellus
2	7/17/18	15026	15186	47	Marcellus
3	7/17/18	14826	14986	47	Marcellus
4	7/18/18	14626	14786	47	Marcellus
5	7/18/18	14426	14586	47	Marcellus
6	7/18/18	14226	14386	47	Marcellus
7	7/19/18	14026	14186	47	Marcellus
8	7/19/18	13826	13986	47	Marcellus
9	7/19/18	13626	13786	47	Marcellus
10	7/20/18	13426	13586	47	Marcellus
11	7/20/18	13226	13386	47	Marcellus
12	7/20/18	13026	13186	47	Marcellus
13	7/21/18	12826	12986	47	Marcellus
14	7/21/18	12626	12786	47	Marcellus
15	7/21/18	12426	12586	47	Marcellus
16	7/22/18	12226	12386	47	Marcellus
17	7/22/18	12026	12186	47	Marcellus
18	7/22/18	11826	11986	47	Marcellus
19	7/23/18	11626	11786	47	Marcellus
20	7/23/18	11426	11586	47	Marcellus
21	7/23/18	11226	11386	47	Marcellus
22	7/24/18	11026	11186	47	Marcellus
23	7/24/18	10826	10986	47	Marcellus
24	7/24/18	10626	10786	47	Marcellus
25	7/25/18	10426	10586	47	Marcellus
26	7/25/18	10226	10386	47	Marcellus
27	7/25/18	10026	10186	47	Marcellus
28	7/26/18	9826	9986	47	Marcellus
29	7/26/18	9626	9786	47	Marcellus
30	7/26/18	9426	9586	47	Marcellus
31	7/27/18	9226	9386	47	Marcellus
32	7/28/18	9026	9186	47	Marcellus
33	7/28/18	8826	8986	47	Marcellus
34	7/28/18	8626	8786	47	Marcellus
35	7/29/18	8426	8586	47	Marcellus
36	7/29/18	8226	8386	47	Marcellus
37	7/29/18	8026	8186	47	Marcellus
38	7/30/18	7826	7986	47	Marcellus
39	7/30/18	7626	7786	47	Marcellus
40	8/1/18	7426	7586	47	Marcellus

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

API: 47-051-01751	Well Name: John Hart	Well Number: Hart 5H
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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	7/17/18	90.2	8644	n/a	4126	399289	9247	n/a
2	7/17/18	97.3	9125	6368	4676	401042	9758	n/a
3	7/17/18	97.4	8734	6094	4679	400027	10036	n/a
4	7/18/18	95.8	8682	6355	5005	399976	9974	n/a
5	7/18/18	97.5	8579	5886	4982	401453	11258	n/a
6	7/18/18	95.2	8614	5914	4588	399592	9314	n/a
7	7/19/18	97	8732	6019	4758	398219	10104	n/a
8	7/19/18	100.3	8842	5789	4921	400838	9669	n/a
9	7/19/18	98.2	8778	6388	4688	400863	9547	n/a
10	7/20/18	98.8	8889	6330	5025	406333	9745	n/a
11	7/20/18	99.8	8734	5915	4846	400770	9749	n/a
12	7/20/18	77	8447	6029	4871	5720	3860	n/a
13	7/21/18	100.1	8375	n/a	4847	402012	9726	n/a
14	7/21/18	50.5	8666	5872	4725	1531	5743	n/a
15	7/21/18	99	8462	6397	4861	400026	9851	n/a
16	7/22/18	98.1	8181	6380	4668	399569	9957	n/a
17	7/22/18	99.4	8203	5515	4752	399362	9574	n/a
18	7/22/18	96.8	8475	6270	4619	399447	9541	n/a
19	7/23/18	99.7	8603	5935	4645	400093	9380	n/a
20	7/23/18	99.2	8568	6806	4528	399287	9472	n/a
21	7/23/18	99.8	8171	5984	4921	399128	9506	n/a
22	7/24/18	99.9	8410	6050	4639	399931	9418	n/a
23	7/24/18	100.2	8477	6366	4491	400013	9489	n/a
24	7/24/18	98.4	8331	6403	4807	399966	9139	n/a
25	7/25/18	95.7	8281	6820	4432	401076	9436	n/a
26	7/25/18	98.6	8133	5457	4468	399621	9497	n/a
27	7/25/18	98.8	8310	6304	4657	399496	9689	n/a
28	7/26/18	95.5	7995	7030	4554	400935	9418	n/a
29	7/26/18	97.3	7895	6311	4478	400418	9472	n/a
30	7/26/18	99.7	8120	6725	4774	400116	8958	n/a
31	7/27/18	100.2	7799	6010	4984	399823	9102	n/a
32	7/28/18	100.6	7635	6871	4705	400211	9311	n/a
33	7/28/18	99.3	7218	5549	4684	400310	9439	n/a
34	7/28/18	99.7	7511	6706	4884	400935	9312	n/a
35	7/29/18	99.7	7562	6664	4819	399808	9299	n/a
36	7/29/18	100.3	7271	5239	4715	399567	9327	n/a
37	7/29/18	100.6	7432	6431	4889	401162	9323	n/a
38	7/30/18	99.6	7684	6384	4848	4848	9295	n/a
39	7/30/18	100	7377	6120	4386	4386	9193	n/a
40	8/1/18	100.4	8432	6950	4560	4560	9412	n/a

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API: 47-051-01751	Farm Name: John Hart	Well Number: Hart 5H
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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	6,919
BRKT	6,436	6,449	6,919	6,941
TLLY	6,449	6,482	6,941	7,001
S5	6,482	6,578	7,001	7,236
S3	6,578	6,594	7,236	7,295
STFD*	6,594	6,596	7,295	7,302
S2.B	6,596	6,610	7,302	7,370
S2.A	6,610		7,370	

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API: 47-051-01751	Farm Name: John Hart	Well Number: Hart 5H
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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

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Job Start Date:	7/17/2018
Job End Date:	8/1/2018
State:	West Virginia
County:	Marshall
API Number:	47-051-01751-00-00
Operator Name:	Chevron USA Inc.
Well Name and Number:	Hart 5H
Latitude:	39.91352500
Longitude:	-80.65486000
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	6,743
Total Base Water Volume (gal):	15,642,900
Total Base Non Water Volume:	



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	Chevron Appalachia, LLC	Carrier/Base Fluid					
				Listed Below			
Scale Inhibitor E	Universal Pressure Pumping	Scale Inhibitor					
				Listed Below			

Submitted 8/20/18

Sand (Proppant)	Universal Pressure Pumping	Proppant					
				Listed Below			
Hydrochloric Acid (7.5%)	Universal Pressure Pumping	Acidizing					
				Listed Below			
K-Bac 1020	Universal Pressure Pumping	Biocide					
				Listed Below			
Unigel 5F	Universal Pressure Pumping	Viscosifier					
				Listed Below			
Unislick ST50	Universal Pressure Pumping	Friction Reducer					
				Listed Below			
Iron Control A	Universal Pressure Pumping	Iron Control Agent					
				Listed Below			
Unihib G	Universal Pressure Pumping	Acid Inhibitor					
				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	88.43631	
			Silica	14808-60-7	99.90000	10.29953	

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			Hydrochloric Acid	7647-01-0	7.50000	0.08499	RECEIVED Office of Oil and Gas DEC 18 2018 WV Department of Environmental Protection
			Petroleum Distillates, Hydrotreated Light	64742-47-8	30.00000	0.02236	
			Ammonium Acetate	631-61-8	13.00000	0.00969	
			Polyethylene Glycol	25322-68-3	50.00000	0.00594	
			Ethylene Glycol	107-21-1	30.00000	0.00566	
			Alcohols, ethoxylated	68002-97-1	5.00000	0.00373	
			Alcohols, ethoxylated	68439-50-9	5.00000	0.00373	
			Alcohols, ethoxylated	68551-12-2	5.00000	0.00373	
			Water	7732-18-5	30.00000	0.00356	
			Copolymer of Maleic and Acrylic Acid	52255-49-9	20.00000	0.00290	
			2,2-Dibromo-3- nitrilopropionamide	10222-01-2	21.00000	0.00249	
			Hexamethylene Triamine Penta(Methylene Phosphonic Acid)	34690-00-1	5.00000	0.00072	
			DETA phosphonate	15827-60-8	5.00000	0.00072	
			Butyl diglycol	112-34-5	75.00000	0.00067	
			Alcohols, C10-16, ethoxylated	68002-97-1	50.00000	0.00044	
			Methanol	67-56-1	5.00000	0.00004	
			Thiourea	62-56-6	1.00000	0.00001	
			Formaldehyde	50-00-0	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 1,149 feet south of Latitude: 39° 55' 00"

AS DRILLED PLAT

AS DRILLED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4418216.51
 E:529498.19
 NAD83, WV NORTH
 N:516935.62
 E:1644567.17

SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4418216.51
 E:529498.19
 NAD83, WV NORTH
 N:516935.62
 E:1644567.17

APPROX. LANDING POINT
 UTM 17-NAD83
 N:4418475.26
 E:529872.15
 NAD83, WV NORTH
 N:517764.19
 E:1645808.52

AS DRILLED APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4418373.59
 E:529971.80
 NAD83, WV NORTH
 N:517425.10
 E:1646129.93

LEGEND

- ⊕ - TOPO MAP POINT
- ☼ - WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- WELL ROADS
- AS-DRILLED LATERAL
- PROPOSED HORIZONTAL WELL
- ROAD
- STREAM CENTER LINE
- - LESSORS
- - SURFACE OWNERS

GAS WELLS

- - EXISTING WELLS
- - PLUGGED WELLS

SEE PAGE 2 FOR SURFACE OWNERS

PARCEL	LESSOR
A	JOHN J. & RENEE HART
B	LAURA MAE HARTLEY
C	WILLIAM H. DEAL
D	WILLIAM H. DEAL
E	RICHARD A. & RUTH B. GAMES
F	RICHARD A. & RUTH B. GAMES
G	RICHARD A. & RUTH B. GAMES
H	RICHARD A. & RUTH B. GAMES
J	RICHARD A. & RUTH B. GAMES
K	RICHARD A. & RUTH B. GAMES
L	RICHARD A. & RUTH B. GAMES
M	JOHN W. & MARY A. MILLER
N	HONUS A. STOLLAR
P	JOHN D. & SHARON M. EBBERT
Q	PHILIP A. & DEBORAH K. KITTLE
R	PHILIP A. & DEBORAH K. KITTLE
S	PHILIP A. & DEBORAH K. KITTLE
T	RICHARD A. & RUTH B. GAMES
U*	RICHARD A. & RUTH B. GAMES

LINE	BEARING	DISTANCE
R1	N 64°06'00" E	237.00'
R2	S 62°56'55" E	207.38'
R3	S 51°52'33" E	162.91'
R4	N 23°59'06" W	1535.90'
R5	N 58°50'46" W	1477.63'
R6	S 78°57'12" W	1656.75'

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

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

FILE #: HART 5H AS-DRILLED
 DRAWING #: HART 5H 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

GEORGE D. SIX
 LICENSED
 No. 2000
 STATE OF WEST VIRGINIA
 PROFESSIONAL SURVEYOR
 PLACE SEAL HERE

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



DATE: APRIL 28, 2016
 OPERATOR'S WELL #: HART 5H AS-DRILLED
 API WELL #: 47 51 01751
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1328.65'
 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: 722.922±

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: 6,743.47'± TMD: 15,471'±
 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 5H

03/29/2019

	SURFACE OWNER	DIST-TM/PAR
1	JOHN J. II & JENNA E. HART	14-10/11
2	DENNIS & MICHELLE S. BLAKE	14-10/11.3
3	CARL W. & BRIDGETT L. YOHO	14-6/35
4	JAMES E. CURRY	14-10/15
5	JAMES E. CURRY	14-10/13
6	JOHN J. HART ET UX	14-10/14
7	JAMES E. BLAKE	14-10/11.1
8	JOHN J. HART ET UX	14-6/36
9	CARL W. YOHO ET AL	14-6/35.1
10	CARL W. & BRIDGETT L. YOHO	14-6/28.1
11	CARL W. & BRIDGETT L. YOHO	14-6/28
12	JEFFREY D. & DENISE A. CRAMER	14-6/27
13	ANNE E. MORRIS	14-6/26
14	JOHN J. HART ET UX	14-10/18
15	JOHN J. & RENEE HART	14-10/19
16	JOHN J. & RENEE HART	14-10/19.1
17	JEFFREY D. & DENISE A. CRAMER	14-10/20
18	JOHN A. BIERCE ET UX	14-6/18.4
19	LEROY E. MEADOWS ET UX	15-8/4
20	LEROY E. MEADOWS ET UX	15-8/5.10
21	STEVE M. BONAR II	15-8/5.1
22	REX W. & JANET L. GARRISON	15-8/5
23	REX W. & JANET L. GARRISON	15-8/5.8
24	REX W. GARRISON	15-8/5.6
25	REX W. & JANET L. GARRISON	15-8/5.9
26	EDWARD D. & MALLORY J. FORDYCE	15-8/5.5
27	JOHN E. DRAKE ET UX	15-15/8.16
28	JOHN A. BIERCE II ET UX	15-15/3
29	VERNON KNOX JR. ET UX	15-15/2
30	KANDY J & ANTHONY E BLATT	15-15/9.1
31	JOHN A. BIERCE II ET UX	15-15/4
32	JOHN B. KESTNER ET UX	15-15/5
33	JOHN A. BIERCE II ET UX	15-15/6
34	JOHN A. BIERCE II ET UX	15-15/7
35	HEIKKI & TRISHA YEAGER	15-15/8.6
36	LARRY D. STERN	15-15/8.14
37	JASON D. PETHTEL	15-15/8.2
38	JASON D. PETHTEL	15-15/8.17
39	WILLIAM S. COX JR.	15-15/8.13
40	WILLIAM S. COX JR.	15-15/8.4
41	RONALD ADAMS ET UX	15-15/8.5
42	JOHN E. DRAKE ET UX	15-15/8.15
43	JOHN E. DRAKE ET UX	15-15/8.1
44	JOHN MASTELLER ET UX	15-8/5.7
45	DARRYL G. HILL ET AL	15-8/5.3
46	JOHN M. & LINDA G. SKRYPEK	15-15/8.11
47	JOHN M. SKRYPEK ET AL	15-15/8.19
48	GREG R. & MELODY BURKE	15-15/8.3
49	DAVID P. SCHIMMEL ET UX	15-15/8.7
50	FRANKIE D. WHITE ET UX	15-15/8.8
51	ERIC & CHRISTINA KESTNER	15-15/8.18
52	NATHAN J. & SHANEY M LILLEY	15-15/12.3
53	JERRY LILLEY ET UX	15-15/12.2
54	JERRY LILLEY ET UX	15-15/11.1
55	M E CHURCH	15-15/10
56	HONUS A. STOLLAR	15-15/9
57	CHRISTOPHER R. & DANIELLE KING	15-15/8.9
58	GREG R. & MELODY BURKE	15-15/8.20
59	JOHN M. & LINDA G. SKRYPEK	15-15/8.12
60	DARRYL G. HILL ET UX	15-8/5.4
61	RONALD W. & MARY E. BREault	15-8/5.11
62	JOHN M. SKRYPEK ET UX	15-15/8.10
63	NATHAN J. & SHANEY M. LILLEY	15-15/11.2
64	JERRY IVAN & CAROLYN LILLEY	15-15/11
65	FRANKLIN J. PIERSON ET UX	15-15/21
66	FRANKLIN PIERSON ET UX	15-15/22
67	FRANKLIN J. PIERSON ET UX	15-15/24.2
68	JOHN D. EBBERT JR ET UX	15-15/24
69	EVELYN J. GAMBLE	15-15/24.1
70	STEVEN & JOYCE ROBINSON ET AL	15-15/26
71	DAVID HENDERSON	15-8/20.2
72	CHRISTOPHER D. & SANDRA O'NEIL	15-15/23
73	PHILIP ALAN KITTLE	15-15/25
74	PHILIP ALAN & DEBORAH K. KITTLE	15-15/33
75	PHILIP ALAN KITTLE	15-15/34
76	CHRISTOPHER D. & SANDRA O'NEIL	15-15/18
77	PHILIP ALAN KITTLE	15-15/35
78	TIMOTHY G. DUNLAP ET UX	15-16/19

SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83
 N:4418216.51
 E:529498.19
 NAD83, WV NORTH
 N:516935.62
 E:1644567.17

AS DRILLED SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4418216.51
 E:529498.19
 NAD83, WV NORTH
 N:516935.62
 E:1644567.17

APPROX. LANDING POINT
 UTM 17-NAD83
 N:4418475.26
 E:529872.15
 NAD83, WV NORTH
 N:517764.19
 E:1645808.52

AS DRILLED APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4418373.59
 E:529971.80
 NAD83, WV NORTH
 N:517425.10
 E:1646129.93

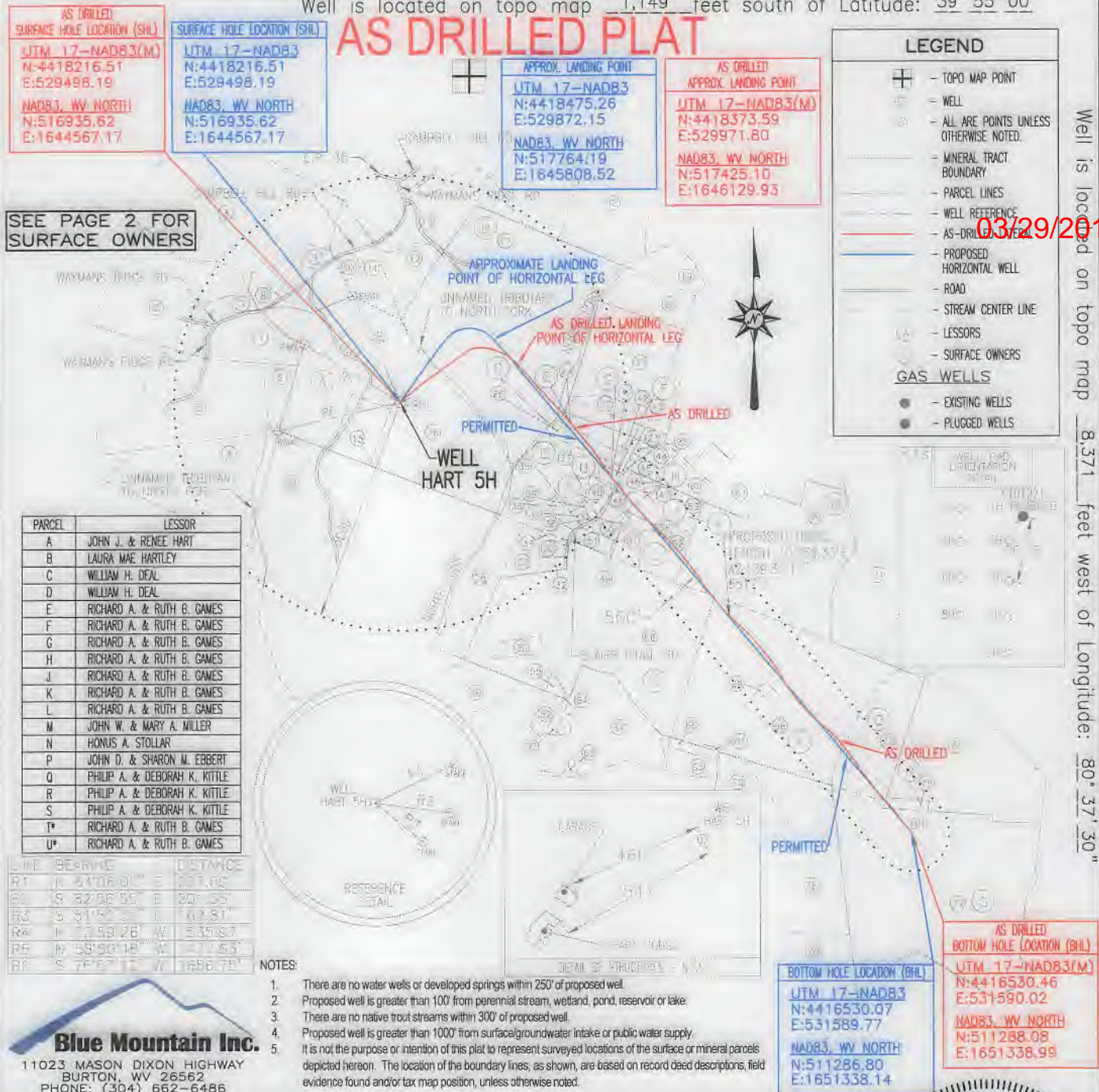
BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83
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 E:531589.77
 NAD83, WV NORTH
 N:511286.80
 E:1651338.14

AS DRILLED BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4416530.46
 E:531590.02
 NAD83, WV NORTH
 N:511288.08
 E:1651338.99

RECEIVED
 Office of Oil and Gas
 DEC 18 2018
 WV Department of
 Environmental Protection

Well is located on topo map 1,149 feet south of Latitude: 39° 55' 00"

AS DRILLED PLAT



SEE PAGE 2 FOR SURFACE OWNERS

PARCEL	LESSOR
A	JOHN J. & RENEE HART
B	LAURA MAE HARTLEY
C	WILLIAM H. DEAL
D	WILLIAM H. DEAL
E	RICHARD A. & RUTH B. GAMES
F	RICHARD A. & RUTH B. GAMES
G	RICHARD A. & RUTH B. GAMES
H	RICHARD A. & RUTH B. GAMES
J	RICHARD A. & RUTH B. GAMES
K	RICHARD A. & RUTH B. GAMES
L	RICHARD A. & RUTH B. GAMES
M	JOHN W. & MARY A. MILLER
N	HONNUS A. STOLLAR
P	JOHN D. & SHARON M. EBBERT
Q	PHILIP A. & DEBORAH K. KITTLE
R	PHILIP A. & DEBORAH K. KITTLE
S	PHILIP A. & DEBORAH K. KITTLE
T*	RICHARD A. & RUTH B. GAMES
U*	RICHARD A. & RUTH B. GAMES

LINE	BEARING	DISTANCE
R1	N 54° 00' 00" E	773.00
R2	S 82° 00' 00" E	20.00
R3	S 51° 52' 00" E	162.81
R4	N 72° 50' 28" W	535.97
R5	N 53° 50' 18" W	122.65
R6	S 76° 57' 11" W	1656.75

- 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.

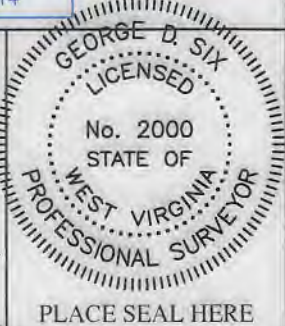
Blue Mountain Inc.
 11023 MASON DIXON HIGHWAY
 BURTON, WV 26562
 PHONE: (304) 662-6486

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

FILE #: HART 5H AS-DRILLED
 DRAWING #: HART 5H 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 5H AS-DRILLED
 API WELL #: 47 51 01751
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE GRAVE CREEK - GRAVE CREEK ELEVATION: 1328.65'
 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: 722.922±

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: 6,743.47'± TMD: 15,471'±
 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 5H

03/29/2019

	SURFACE OWNER	DIST-TM/PAR
1	JOHN J. II & JENNA E. HART	14-10/11
2	DENNIS & MICHELLE S. BLAKE	14-10/11.3
3	CARL W. & BRIDGETT L. YOHO	14-6/35
4	JAMES E. CURRY	14-10/15
5	JAMES E. CURRY	14-10/13
6	JOHN J. HART ET UX	14-10/14
7	JAMES E. BLAKE	14-10/11.1
8	JOHN J. HART ET UX	14-6/36
9	CARL W. YOHO ET AL	14-6/35.1
10	CARL W. & BRIDGETT L. YOHO	14-6/28.1
11	CARL W. & BRIDGETT L. YOHO	14-6/28
12	JEFFREY D. & DENISE A. CRAMER	14-6/27
13	ANNE E. MORRIS	14-6/26
14	JOHN J. HART ET UX	14-10/18
15	JOHN J. & RENEE HART	14-10/19
16	JOHN J. & RENEE HART	14-10/19.1
17	JEFFREY D. & DENISE A. CRAMER	14-10/20
18	JOHN A. BIERCE ET UX	14-6/18.4
19	LEROY E. MEADOWS ET UX	15-8/4
20	LEROY E. MEADOWS ET UX	15-8/5.10
21	STEVE M. BONAR II	15-8/5.1
22	REX W. & JANET L. GARRISON	15-8/5
23	REX W. & JANET L. GARRISON	15-8/5.8
24	REX W. GARRISON	15-8/5.6
25	REX W. & JANET L. GARRISON	15-8/5.9
26	EDWARD D. & MALLORY J. FORDYCE	15-8/5.5
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