

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

RECEIVED
Office of Oil and Gas

JAN 24 2019

WV Department of
Environmental Protection

API 47 - 051 - 01959 County Marshall District Webster
Quad Majorsville Pad Name SHL27 Field/Pool Name _____
Farm name Steve and Ed Ward Well Number SHL27 LHS
Operator (as registered with the OOG) HG Energy II Appalachia, LLC
Address 5260 Dupont Road City Parkersburg State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4423212.5 Easting 535390.7
Landing Point of Curve Northing 4423087.7 Easting 535418.5
Bottom Hole Northing 4425155.6 Easting 534533.4

Elevation (ft) 1153.6' 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)
Mud Type - SOBM, Additives - Lime, Calcium Chloride, Gilsonite, Asphalt, Barite, Emulsifier, Base Oil

Date permit issued 11/3/17 Date drilling commenced 2/12/18 Date drilling ceased 4/16/18
Date completion activities began 5/7/18 Date completion activities ceased 7/16/18
Verbal plugging (Y/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 500' Open mine(s) (Y/N) depths N
Salt water depth(s) ft Not Observed Void(s) encountered (Y/N) depths N
Coal depth(s) ft 653' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) Yes

Reviewed

Reviewed by:

[Signature]
3/28/19

WR-35
Rev. 8/23/13

API 47- 051 - 01959 Farm name Steve and Ed Ward Well number SHL27 LHS

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							
Surface							
Coal							
Intermediate 1							
Intermediate 2			*See Attached*				
Intermediate 3							
Production							
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	NA	NA	NA	NA	NA		
Surface	Class A	936	15.6	1.1966	1028	0	8 hours
Coal							
Intermediate 1	Class A	915	15.6	1.1966	1052	0	8 hours
Intermediate 2	Class A	990	16.0	1.22	1207	0	8 hours
Intermediate 3							
Production	Class A	1262/1943	14.5/14.8	1.1859/1.2257	1497/2381	0	8 hours
Tubing							

Drillers TD (ft) 14271' TMD, 6447' TVD Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 5498' TVD, 5666' TVD

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 See Attached

RECEIVED
Office of Oil and Gas

JAN 24 2019

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____
 WV Department of Environmental Protection

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

HG ENERGY II APPALACHIA, LLC. - DAILY DRILLING REPORT

WELL INFORMATION (SHL27 LHS)

CASING INFORMATION

SHOWS (Fresh Water, Oil, Gas)

Conductor	Set 60' of 30" 157.5ppf LS (3 jts. - welded)						Depth	Formation	Show
	Surface	Intermediate 1	Intermediate 2	Production					
No. Jts. Run	22	27		73		323	60'	Sand	Damp
Hole Depth	481	1067.24		3080		14271	500	Sand	Damp
Csg Size	20"	13-3/8		9 5/8"		5 1/2"	4,548	Silt	220 units
Wt.	94	54.5		40		23	5,978	Silt	240 units
Grade	J-55	J-55		J-55		P-110	11,384	Shale	2252 units
Type Thrd	BTC	BTC		BTC		CDC HTQ			
New/Used	New	New		New		New			
Casing Depth Set	453	1063		3050		14233			
Plug	429	1021		3005		62.72			
Shoe	453	1063		3050		14233			
Basket	N/A	N/A		N/A		N/A			
Centralizers	7	9		39		142			
Cmt Return	48.5	26		23		72			
Sks. Lead	936	915		990		1262			
Type Cmt Lead.	Class A	Class A		Class A		Class A			
Sks. Tail	N/A	N/A		N/A		1943			
Type Cmt. Tail	N/A	N/A		N/A		Class A			
Top Cmt.	Surface	Surface		Surface		Surface			

RECEIVED
Office of Oil and Gas

JAN 24 2019

WV Department of
Environmental Protection

HG Energy II Appalachia, LLC
SHL27 LHS - 47-051-01959
Perforation Record

Stage Number	Perforation	Perforated	Perforated	Number of	
Number	Date	from MD ft.	to MD ft.	Perforations	Formations
1		N/A	N/A	N/A	
2	5/20/2018	14,034	13,772	70	
3	5/21/2018	13,742	13,472	70	
4	5/21/2018	13,442	13,172	70	
5	5/21/2018	13,142	12,872	70	
6	5/22/2018	12,842	12,572	70	
7	5/22/2018	12,542	12,272	70	
8	5/23/2018	12,242	11,972	70	
9	5/23/2018	11,942	11,672	70	
10	5/24/2018	11,642	11,372	70	
11	5/24/2018	11,342	11,072	70	
12	5/25/2018	11,042	10,772	70	
13	5/25/2018	10,742	10,472	70	
14	5/26/2018	10,442	10,172	70	
15	5/26/2018	10,142	9,872	70	
16	5/26/2018	9,842	9,572	70	
17	5/27/2018	9,542	9,272	70	
18	5/28/2018	9,242	8,972	70	
19	5/28/2018	8,942	8,672	70	
20	5/29/2018	8,642	8,372	70	
21	5/30/2018	8,342	8,072	70	
22	5/31/2018	8,042	7,772	70	
23	6/2/2018	7,742	7,472	70	
24	6/2/2018	7,442	7,172	70	
25	6/3/2018	7,142	6,872	70	

RECEIVED
Office of Oil and Gas
JAN 24 2019
WV Department of
Environmental Protection

HG Energy II Appalachia, LLC
SHL27 LHS - 47-051-01959
Stimulation Information Per Stage

Stage Number	Stimulation Date	Avg Pump Rate (BPM)	Avg Pressure (psi)	Breakdown (Psi)	ISIP (psi)	Amount of Proppant (klbs)	Amount of Water (bbls)	Amount of Acid (gallons)
1		N/A	N/A	N/A	N/A	N/A	N/A	N/A
2	5/20/2018	90.1	9,451	10,450	3,400	4,428.0	9,716	1,990
3	5/21/2018	84.3	9,831	10,231	3,775	5,851.8	14,363	1,050
4	5/21/2018	88.7	8,681	5,674	4,250	8,378.4	21,030	989
5	5/21/2018	69.0	10,745	5,429	4,450	2,653.8	8,714	988
6	5/22/2018	90.0	8,892	5,141	4,090	8,138.8	18,176	998
7	5/22/2018	93.3	9,634	5,504	5,700	5,912.2	15,122	1,028
8	5/23/2018	88.1	8,557	5,212	4,673	6,061.8	15,901	1,053
9	5/23/2018	95.4	9,713	5,303	4,668	5,968.4	14,933	1,018
10	5/24/2018	85.7	8,163	5,020	4,431	8,015.6	17,827	1,037
11	5/24/2018	95.3	9,637	5,810	4,264	8,000.0	17,452	1,044
12	5/25/2018	84.0	8,511	6,172	3,940	7,995.0	18,143	2,041
13	5/25/2018	100.3	8,556	5,745	4,502	8,984.0	18,485	1,032
14	5/26/2018	90.9	7,784	5,533	4,320	8,746.4	18,532	1,057
15	5/26/2018	98.8	8,349	5,155	4,505	9,252.0	18,751	992
16	5/26/2018	94.3	7,844	4,964	4,225	9,509.6	19,606	1,028
17	5/27/2018	98.9	8,070	5,276	4,395	9,495.0	19,190	1,034
18	5/28/2018	91.5	7,721	5,461	4,531	9,629.2	19,088	1,006
19	5/28/2018	100.5	8,290	6,084	4,939	9,509.0	20,926	1,049
20	5/29/2018	89.7	8,587	5,452	4,925	8,391.0	20,584	1,032
21	5/30/2018	92.5	7,573	5,326	4,550	9,506.8	20,957	998
22	5/31/2018	89.2	7,789	4,966	4,682	7,072.0	19,879	990
23	6/2/2018	96.2	7,175	5,018	4,060	7,583.0	18,740	988
24	6/2/2018	94.5	7,234	5,431	4,225	9,593.0	21,131	994
25	6/3/2018	101.1	7,374	5,230	4,094	9,556.0	21,069	1,006
26								
27								

RECEIVED
Office of Oil and Gas

JAN 24 2019

WV Department of Environmental Protection

WR-35
Rev. 8/23/13

API 47- 051 - 01959 Farm name Steve and Ed Ward Well number SHL27 LHS

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6455	TVD 6840 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3028 psi Bottom Hole ___ psi DURATION OF TEST 646 hrs

OPEN FLOW Gas 6231 mcfpd Oil 264 bpd NGL ___ bpd Water 360 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		
		See Attached			

Please insert additional pages as applicable.

Drilling Contractor Patterson Drilling
Address 2198 University Drive City Lemont Furnace State PA Zip 15456

Logging Company Schlumberger
Address 100 Gillingham Lane City Sugar Land State TX Zip 77478

Cementing Company C&J Energy Services
Address 3990 Rogerdale City Houston State TX Zip 77042

Stimulating Company Stingray
Address 14201 Caliber Drive City Oklahoma City State OK Zip 73124

Please insert additional pages as applicable.

Completed by Diane White Telephone 304-420-1119
Signature Diane White Title _____ Date 1/4/2018

RECEIVED
Office of Oil and Gas
JAN 24 2019
WV Department of
Environmental Protection

HG Energy II Appalachia, LLC
SHL27 -LHS Actual tops
Lithology/Formation

	MD		TVD	
T - Pittsburgh Coal (~5' thick)	653	1257	653	1257
T - Gas/Salt Sands (~250')	1257	1562	1257	1562
T - Greenbrier Big Lime (~19' thick)	1562	1590	1562	1590
T - Loyalhanna Big Injun (~39' thick)	1590	1712	1590	1712
T - Pocono Big Injun (~153' thick)	1712	2114	1712	2114
T - Berea (~18' thick)	2114	2276	2114	2276
T - Gantz/Upper 30-Foot sand	2276	2590	2276	2590
T - Gordon Stray sand (~10' thick)	2590	2643	2590	2643
T - Gordon sand (~17' thick)	2643	2755	2643	2755
T - 5th sand (~5' thick)	2755	5870	2755	5707
T - Rhinestreet (454' thick)	5870	6318	5707	6137
T - Cashaqua (100' Thick)	6318	6405	6137	6213
T - Middlesex (32' thick)	6405	6442	6213	6265
T - West River (71' thick)	6442	6515	6265	6299
T - Burket (~10' thick)	6515	6539	6299	6316
T - Tully (~26' thick)	6539	6577	6316	6341
T-Hamilton (~115' thick)	6577	6840	6341	6455
T - Marcellus shale (~53' thick)	6840		6455	

RECEIVED
Office of Oil and Gas
JAN 24 2019
WV Department of
Environmental Protection

As Drilled well is located on topo map 8 feet south of Latitude: 39° 57' 30"

Proposed well is located on topo map 648 feet west of Longitude: 80° 35' 00"

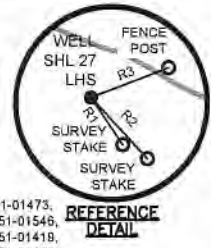
- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
 2. There are no existing buildings within 625' of proposed well.
 3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 4. There are no native trout streams within 300' of proposed well.
 5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 6. 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, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

LEGEND

- AS DRILLED SURFACE HOLE LOCATION ON 7.5' TOPOGRAPHIC MAP
- AS DRILLED WELL
- WATER SOURCE
- LEASED NUMBER BASED ON ATTACHED WMS#1 ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- PARCEL LINES
- PROPOSED HORIZONTAL WELL
- AS DRILLED HORIZONTAL WELL
- WELL REFERENCE
- STREAM/WATERWAY
- ROAD

WELLS WITHIN 3000'

- EXISTING GAS WELL
- RECORD GAS WELL



WATER WELLS: NONE FOUND

LINE TABLE

LINE	BEARING	DISTANCE
R1	N33°59'39"W	295.70'
R2	N42°42'38"W	432.52'
R3	S68°53'00"W	432.42'
R4	N17°08'23"W	994.92'
R5	S02°38'31"W	1079.78'

Waterfront Corporate Park, Suite 101
2000 Georgetown Drive
Sewley, PA 15143

F: 724-446-1100
F: 724-446-1104
www.pve.com

Civil Engineering | Land and Development | Structure Design
Land Planning | Landscape Architecture | Environmental

AS DRILLED SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83(m)
N: 4423212.482
E: 535390.671
NAD27(ft), WV NORTH
N: 532969.490
E: 1695612.485
LAT/LON DATUM-NAD83
LAT: 39.958312
LON: -80.585646

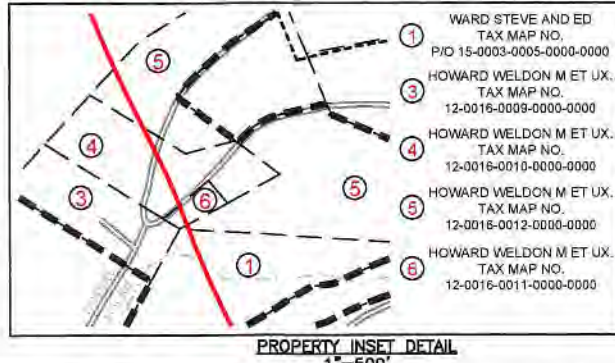
LANDING POINT LOCATION

UTM 17 - NAD83(m)
N: 4423087.719
E: 535418.495
NAD27(ft), WV NORTH
N: 532558.546
E: 1695696.945
LAT/LON DATUM-NAD83
LAT: 39.957187
LON: -80.585327

BOTTOM HOLE LOCATION

UTM 17 - NAD83(m)
N: 4425155.603
E: 534533.363
NAD27(ft), WV NORTH
N: 539393.002
E: 1692905.875
LAT/LON DATUM-NAD83
LAT: 39.975854
LON: -80.595580

RECEIVED
Office of Oil and Gas
JAN 24 2019
Department of Environmental Protection



FILE #: SHL 27 LHS

DRAWING #: SHL 27 LHS

SCALE: 1"=2000'

MINIMUM DEGREE OF ACCURACY: 1/2500

PROVEN SOURCE OF ELEVATION: USGS MONUMENT U 124: 951.16'

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.: 18766 L.L.S.: P.S. NO. _____

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

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

WATERSHED: WHEELING CREEK ELEVATION: 1,153.60'

COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, W. VA

SURFACE OWNER: STEVE WARD AND ED WARD ACREAGE: 122.47

OIL & GAS ROYALTY OWNER: BOUNTY MINERALS, LLC ACREAGE: 122.47

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

TARGET FORMATION: MARCELLUS AS DRILLED DEPTH: TVD: 6.447' TMD: 14,271'

WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE

Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD

City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101

DATE: JANUARY 18, 2018

OPERATOR'S WELL #: SHL 27 LHS

API WELL # 47 051 01959
STATE COUNTY PERMIT

SHEET: 1 OF 2

Bottom hole is located on topo map 8,796 feet south of Latitude: 40° 00' 00"

Bottom hole is located on topo map 3,432 feet west of Longitude: 80° 35' 00"

03/29/2019

AS DRILLED

SURFACE HOLE LOCATION (SHL)

UTM 17 - NAD83(m)
 N: 4423212.482
 E: 535390.671
 NAD27(ft), WV NORTH
 N: 532969.490
 E: 1695612.485
 LAT/LON DATUM-NAD83
 LAT: 39.958312
 LON: -80.585646

LANDING POINT LOCATION

UTM 17 - NAD83(m)
 N: 4423087.719
 E: 535418.495
 NAD27(ft), WV NORTH
 N: 532558.546
 E: 1695696.945
 LAT/LON DATUM-NAD83
 LAT: 39.957187
 LON: -80.585327

BOTTOM HOLE LOCATION

UTM 17 - NAD83(m)
 N: 4425155.603
 E: 534533.363
 NAD27(ft), WV NORTH
 N: 539393.002
 E: 1692905.875
 LAT/LON DATUM-NAD83
 LAT: 39.975854
 LON: -80.595580

LEGEND

 BOTTOM HOLE LOCATION



NOTES:

- There are no water wells or developed springs within 250' of proposed well.
- There are no existing buildings within 625' 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 herein. The location of the boundary lines, as shown, and based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

200	HICKEY GLENN M	TAX MAP NO. 15-0001-0006-0001-0000
201	HICKEY GLENN M	TAX MAP NO. 12-0010-0008-0000-0000
202	TOLAND DOROTHY J WINNER SANDRA J	TAX MAP NO. 12-0011-0003-0000-0000
203	MILLER DOROTHY T ET AL	TAX MAP NO. 12-0011-0004-0000-0000
204	GRAY DONALD G & DAVID G	TAX MAP NO. 12-0011-0008-0000-0000
205	HILLBERRY PAUL E JR	TAX MAP NO. 12-0011-0009-0003-0000
207	TERRY JOHN G II	TAX MAP NO. 12-0016-0007-0000-0000
208	HOWARD WELDON M ET UX	TAX MAP NO. 12-0016-0008-0000-0000
209	WARD STEVE AND ED	TAX MAP NO. 15-0003-0005-0000-0000
210	HOWARD WELDON M ET UX	TAX MAP NO. 12-0016-0009-0000-0000
211	HOWARD WELDON M ET UX	TAX MAP NO. 12-0016-0010-0000-0000
212	HOWARD WELDON M ET UX	TAX MAP NO. 12-0016-0012-0000-0000
213	WHEELING CREEK WATERSHED COMM	TAX MAP NO. 12-0016-0020-0000-0000
214	WHEELING CREEK WATERSHED COMM	TAX MAP NO. 12-0016-0022-0000-0000
215	HOWARD JACK ET UX	TAX MAP NO. 12-0016-0019-0000-0000
216	NEWBERRY PHILLIP E	TAX MAP NO. 12-0016-0015-0000-0000
217	PACZEWSKI DEBRA J	TAX MAP NO. 12-0016-0012-0001-0000
218	DAVIS MORGAN	TAX MAP NO. 12-0016-0017-0000-0000
219	NORTH BONNIE J & GEORGE K GRAY	TAX MAP NO. 12-0016-0013-0000-0000
220	KELLER ROBERT LEE & MARY KAY	TAX MAP NO. 15-0003-0004-0002-0000
221	ZACCHEUS PROPERTIES LLC	TAX MAP NO. 12-0016-0006-0000-0000
222	TERRY JOHN G II	TAX MAP NO. 12-0016-0007-0000-0000
223	HOWARD WELDON M ET UX	TAX MAP NO. 12-0016-0008-0000-0000
224	KUPFER PHILLIP A	TAX MAP NO. 12-0016-0002-0003-0000

Waterford Corporate Park II, Suite 191
 2000 Georgianna Drive
 Sawcley, PA 15143


P: 724-444-1100
 F: 724-444-1104
 www.pve4c.com



Civil Engineering | Land Development | Structure Design
 Land Planning | Landscape Architecture | Environmental

FILE #: SHL 27 LHS
 DRAWING #: SHL 27 LHS
 SCALE: 1"=2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE: USGS MONUMENT U 124: 951.16'

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: 
 R.P.E.: 18766 L.L.S.: P.S. NO. _____



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



DATE: JANUARY 18, 2018
 OPERATOR'S WELL #: SHL 27 LHS
 API WELL # 47 051 01959
 STATE COUNTY PERMIT

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

SHEET: 2 OF 2

WATERSHED: WHEELING CREEK ELEVATION: 1,153.80'
 COUNTY/DISTRICT: MARSHALL / WEBSTER QUADRANGLE: MAJORSVILLE, W. VA
 SURFACE OWNER: STEVE WARD AND ED WARD ACREAGE: 122.47
 OIL & GAS ROYALTY OWNER: BOUNTY MINERALS, LLC ACREAGE: 122.47

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

TARGET FORMATION: MARCELLUS AS DRILLED DEPTH: TVD: 6.447' TMD: 14.271'
 WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE
 Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD
 City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101