

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

API 47-033-05936 County Harrison District Union
Quad West Milford, WV 7.5' Pad Name Nays 1209 Field/Pool Name Fink Kennedy
Farm name Nays Well Number Nays 1209 N3H
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 4333345.756 Easting 548091.298
Landing Point of Curve Northing 4333320.863 Easting 547964.501
Bottom Hole Northing 4337694.77 Easting 546425.80

Elevation (ft) 1007' GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
Air/ OBM

KCL, Barite, Lime, CaCL, base oil, clay, sulfatone, safevert FLG, safevert WA

Date permit issued 01/29/2019 Date drilling commenced 2/28/2019 Date drilling ceased 10/22/2019
Date completion activities began 12/2/2019 Date completion activities ceased 4/8/2020
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 460 Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft 160, 544 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
SPW
6/30/2020

API 47- 033 - 05936 Farm name Nays Well number Nays 1209 N3H

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	30"	30"	100'	New	154.5 lbs/ft		N
Surface	26"	20"	602'	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	1684'	New	68 lbs/ft		Yes
Intermediate 2	12.25"	9.625"	2507'	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5"	5.5"	22015'	New	23 lbs/ft P-11		Yes
Tubing	5.5"	2.875"	6847.94'	New	6.5 lbs/ft J55		not cemented
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	Drilled in						
Surface	Class A	1084	15.6	1.2	1319	Surface	8
Coal							
Intermediate 1	Class A	1480/440	15.4/15.9	1.24/1.17	1836/556	Surface	24
Intermediate 2	Class A	776	15.6	1.19	925	Surface	8
Intermediate 3							
Production	Class A	1312/3274	14.8/14.8	1.34/1.34	1696/4536	Surface	8
Tubing							

Drillers TD (ft) 22046 Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 6807

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 _____
 20" casing: Centralizer placed on the shoe joint and every other joint to surface
 13.375" casing: centralizer run every joint to 20" casing then placed every 3 joints to surface
 9.625" casing: Centralizers run every other joint to 13.375" casing then placed every 3 joints to surface
 5.5" casing: Centralizer run every joint to top of curve (KOP) then centralizers placed every 3 joints to surface

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

API 47- 033 - 05936

Farm name Nays

Well number Nays 1209 N3H

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					

Please insert additional pages as applicable.

HG Energy II Appalachia, LLC
Nays 1209 N-3H
Perforation Record

Stage #	Date	Perforation From Depth	Perforation To Depth	Number of Perforations	Formation
Sleeve / 1	2/9/2020	21909	21865	Sleeves	Marcellus
2	2/9/2020	21,831	21,663	49	Marcellus
3	2/9/2020	21,635	21,467	49	Marcellus
4	2/10/2020	21,439	21,271	49	Marcellus
5	2/10/2020	21,243	21,075	49	Marcellus
6	2/10/2020	21,047	20,879	49	Marcellus
7	2/10/2020	20,851	20,683	49	Marcellus
8	2/11/2020	20,655	20,487	49	Marcellus
9	2/11/2020	20,459	20,291	49	Marcellus
10	2/11/2020	20,263	20,095	49	Marcellus
11	2/12/2020	20,067	19,899	49	Marcellus
12	2/12/2020	19,871	19,703	49	Marcellus
13	2/12/2020	19,675	19,507	49	Marcellus
14	2/12/2020	19,479	19,311	49	Marcellus
15	2/13/2020	19,283	19,115	49	Marcellus
16	2/13/2020	19,087	18,919	49	Marcellus
17	2/13/2020	18,891	18,723	49	Marcellus
18	2/14/2020	18,695	18,527	49	Marcellus
19	2/14/2020	18,499	18,331	49	Marcellus
20	2/14/2020	18,303	18,135	49	Marcellus
21	2/14/2020	18,107	17,939	49	Marcellus
22	2/15/2020	17,911	17,743	49	Marcellus
23	2/15/2020	17,715	17,547	49	Marcellus
24	2/16/2020	17,518	17,350	49	Marcellus
25	2/16/2020	17,320	17,152	49	Marcellus
26	2/16/2020	17,122	16,954	49	Marcellus
27	2/16/2020	16,924	16,756	49	Marcellus
28	2/17/2020	16,726	16,558	49	Marcellus
29	2/17/2020	16,528	16,360	49	Marcellus
30	2/17/2020	16,330	16,162	49	Marcellus
31	2/18/2020	16,132	15,964	43	Marcellus
32	2/18/2020	15,934	15,766	43	Marcellus
33	2/19/2020	15,736	15,568	43	Marcellus
34	2/19/2020	15,538	15,370	43	Marcellus
35	2/20/2020	15,340	15,172	40	Marcellus
36	2/20/2020	15,142	14,974	40	Marcellus
37	2/20/2020	14,944	14,776	40	Marcellus
38	2/21/2020	14,746	14,578	40	Marcellus
39	2/23/2020	14,548	14,380	36	Marcellus
40	2/23/2020	14,350	14,182	36	Marcellus
41	2/24/2020	14,152	13,984	36	Marcellus

42	2/24/2020	13,954	13,786	36	Marcellus
43	2/24/2020	13,756	13,588	36	Marcellus
44	2/25/2020	13,558	13,390	34	Marcellus
45	2/25/2020	13,360	13,192	34	Marcellus
46	2/26/2020	13,162	12,994	34	Marcellus
47	2/26/2020	12,964	12,796	34	Marcellus
48	2/26/2020	12,766	12,598	34	Marcellus
49	2/27/2020	12,568	12,400	32	Marcellus
50	2/27/2020	12,370	12,202	32	Marcellus
51	2/28/2020	12,172	12,004	32	Marcellus
52	3/1/2020	11,974	11,806	30	Marcellus
53	3/1/2020	11,776	11,608	30	Marcellus
54	3/2/2020	11,578	11,410	30	Marcellus
55	3/3/2020	11,380	11,212	30	Marcellus
56	3/4/2020	11,182	11,014	28	Marcellus
57	3/4/2020	10,984	10,816	28	Marcellus
58	3/5/2020	10,786	10,618	28	Marcellus
59	3/6/2020	10,588	10,420	28	Marcellus
60	3/6/2020	10,390	10,502	20	Marcellus
61	3/7/2020	10,192	10,024	24	Marcellus
62	3/7/2020	9,994	9,826	24	Marcellus
63	3/8/2020	9,796	9,628	24	Marcellus
64	3/9/2020	9,598	9,430	24	Marcellus
65	3/9/2020	9400	9232	24	Marcellus
66	3/10/2020	9202	9034	24	Marcellus
67	3/10/2020	9004	8836	28	Marcellus
68	3/11/2020	8806	8638	28	Marcellus
69	3/12/2020	8608	8440	28	Marcellus
70	3/12/2020	8410	8242	28	Marcellus
71	3/13/2020	8212	8044	28	Marcellus
72	3/13/2020	8014	7846	28	Marcellus
73	3/14/2020	7816	7648	28	Marcellus
74	3/14/2020	7618	7450	28	Marcellus
75	3/14/2020	7420	7252	28	Marcellus
76	3/14/2020	7222	7054	28	Marcellus
77	3/15/2020	7024	6856	28	Marcellus

HG Energy II Appalachia, LLC
Nays 1209 N-3H
Stimulation Record

Stage #	Date	Average Pump Rate (BPM)	Average Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve / 1	2/9/2020	71.9	8644	9230	4847	245100	3193
2	2/9/2020	76.9	9,304	9,683	5,205	524,800	11,959
3	2/9/2020	80.5	9,270	9,745	5,391	676,500	13,322
4	2/10/2020	83.3	9,738	10,061	4,992	409,200	10,757
5	2/10/2020	83.0	9,709	10,148	5,227	699,760	13,868
6	2/10/2020	83.8	9,844	10,206	5,428	700,180	13,857
7	2/10/2020	84.7	9,630	9,940	5,758	699,900	13,833
8	2/11/2020	83.5	9,640	9,980	5,795	573,200	11,567
9	2/11/2020	85.0	9,796	10,266	5,744	702,280	12,685
10	2/11/2020	82.3	9,678	10,139	5,524	701,700	12,463
11	2/12/2020	86.0	9,944	10,238	5,388	662,800	11,299
12	2/12/2020	84.3	9,835	10,342	5,081	704,760	11,754
13	2/12/2020	86.9	9,816	10,229	5,666	678,300	11,462
14	2/12/2020	80.7	9,825	10,402	5,584	582,600	9,007
15	2/13/2020	82.7	9,811	10,282	5,125	705,040	11,919
16	2/13/2020	84.9	9,830	10,472	5,689	622,620	11,171
17	2/13/2020	84.5	9,743	10,242	5,107	705,700	10,878
18	2/14/2020	83.2	9,930	10,381	8,406	319,300	7,235
19	2/14/2020	83.0	9,658	10,134	5,210	720,480	10,106
20	2/14/2020	82.1	9,675	10,379	5,670	719,700	9,987
21	2/14/2020	79.6	9,745	10,267	6,099	614,200	9,222
22	2/15/2020	81.5	9,733	10,047	5,337	723,220	9,846
23	2/15/2020	88.1	9,821	10,155	5,609	743,800	12,779
24	2/16/2020	85.9	9,949	10,590	5,828	716,100	9,758
25	2/16/2020	82.3	9,719	10,674	5,933	716,100	9,719
26	2/16/2020	84.4	9,666	10,109	5,807	719,700	9,837
27	2/16/2020	85.8	9,541	9,861	6,248	739,900	9,936
28	2/17/2020	80.4	9,801	10,399	5,641	698,580	9,580
29	2/17/2020	82.7	9,877	10,254	5,790	739,600	10,171
30	2/17/2020	87.3	9,728	10,076	5,877	739,600	9,881
31	2/18/2020	79.0	9,732	10,492	5,346	739,500	12,462
32	2/18/2020	84.6	9,590	10,010	6,039	736,700	11,652
33	2/19/2020	79.5	9,475	10,675	5,982	739,960	10,796
34	2/19/2020	83.9	9,451	10,394	6,005	740,080	9,769
35	2/20/2020	89.7	9,597	10,567	5,775	636,300	10,811
36	2/20/2020	85.4	9,384	9,926	5,936	740,340	10,060
37	2/20/2020	80.1	9,360	10,284	6,024	724,700	9,744
38	2/21/2020	85.3	8,712	9,644	5,736	739,520	9,880
39	2/23/2020	85.2	9,021	10,454	5,642	740,080	9,967
40	2/23/2020	84.0	9,030	9,674	5,988	740,300	10,620
41	2/24/2020	91.3	9,261	9,655	5,710	736,580	9,736

42	2/24/2020	78.7	9,380	10,681	5,025	739,940	11,845
43	2/24/2020	90.8	9,545	9,988	5,933	739,800	9,662
44	2/25/2020	90.0	9,599	10,149	5,511	737,540	9,953
45	2/25/2020	91.7	9,712	10,541	5,230	739,700	9,843
46	2/26/2020	92.3	9,668	10,488	5,416	709,600	9,565
47	2/26/2020	92.5	9,463	10,179	5,642	740,380	9,728
48	2/26/2020	89.1	9,242	9,851	6,310	740,200	9,136
49	2/27/2020	94.2	9,617	10,594	5,738	740,000	10,615
50	2/27/2020	93.4	9,849	10,664	5,265	739,820	9,957
51	2/28/2020	88.5	9,292	9,815	6,389	740,300	9,623
52	3/1/2020	88.2	9,640	10,574	5,584	739,720	11,585
53	3/1/2020	89.0	9,039	10,091	4,942	704,060	10,660
54	3/2/2020	85.1	9,187	9,729	5,187	740,200	10,706
55	3/3/2020	93.4	9,407	10,014	5,906	647,600	10,091
56	3/4/2020	86.5	9,163	10,359	4,616	741,400	10,737
57	3/4/2020	89.8	9,319	9,933	5,069	740,400	9,552
58	3/5/2020	87.3	8,661	9,690	6,097	690,000	10,510
59	3/6/2020	92.1	8,908	9,880	4,607	740,400	9,707
60	3/6/2020	90.8	9,428	9,972	5,481	740,200	10,920
61	3/7/2020	94.9	9,017	9,948	5,460	740,200	9,793
62	3/7/2020	90.7	9,541	10,690	5,315	710,200	9,718
63	3/8/2020	90.6	9,449	10,030	6,125	710,000	9,277
64	3/9/2020	89	9,211	10,258	5,456	709,900	9,621
65	3/9/2020	86.1	9,300	9,981	4,833	609700	10,652
66	3/10/2020	86.5	9,175	10,015	5,591	709600	12,612
67	3/10/2020	95.4	9,424	10,005	6,142	503400	8,028
68	3/11/2020	95.3	8,829	9,702	2,924	586700	9,771
69	3/12/2020	95.8	8,698	9,692	5,162	551300	9,460
70	3/12/2020	93.8	8,381	9,995	5,219	689560	9,508
71	3/13/2020	96.9	8,886	9,998	5,271	700200	11,115
72	3/13/2020	93.3	8,639	9,318	5,120	679020	11,038
73	3/14/2020	99	8,707	9,646	5,618	700200	9,567
74	3/14/2020	98.9	8,895	10,124	5,765	699800	9,551
75	3/14/2020	97.7	8,520	9,828	5,367	756300	11,178
76	3/14/2020	96.3	8,933	9,848	5,220	700300	10,904
77	3/15/2020	99.6	8,370	9,476	5,414	610000	9,110

API 47- 033 - 05936 Farm name Nays Well number Nays 1209 N3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6807-6782</u> TVD	<u>6807-22046</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3586 psi Bottom Hole _____ psi DURATION OF TEST 359 hrs

OPEN FLOW Gas 24888 mcfpd Oil _____ bpd NGL _____ bpd Water 1008 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)
	<u>0</u>		<u>0</u>		** 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 Renegade Wireline Services
Address 191 Earnhardt Rd. City Hunker State PA Zip 15639

Cementing Company Schlumberger
Address 300 Schlumberger Dr City Sugar Land State TX Zip 77478

Stimulating Company Stingray
Address 14201 Caliber Dr City Oklahoma City State OK Zip 73134

Please insert additional pages as applicable.

Completed by Diane White Telephone 304-420-1119
Signature Diane White Title _____ Date 6/17/2020

HG Energy II Appalachia, LLC
Nays 1209 N-3H
Lithology/Formation Information

Formation	Top Depth TMD	Top Depth TVD	Bottom Depth TMD	Bottom Depth TVD	Rock Type, Type of Fluid, Gas, Oil	Oil, Gas, Water
Coal	160	160	163	163	Coal	
Water show	460	460	461	461	3/4" stream, sand	Water
Coal	544	544	548	548	Coal	
3rd Salt sand	808	808	905	905	Sand/Siltstone	
Red rock	988	988	1054	1054	Red/brown Shale/Siltstone, sandstone	
Lower Maxton	1058	1058	1118	1118	Sandstone/ Siltstone	
Big lime	1158	1158	1229	1229	Limestone	
Big Injun	1229	1229	1344	1344	Sandstone	
Gantz	1541	1541	1594	1594	Sandstone	
50' sand	1644	1644	1682	1682	Sandstone	
30' Sand	1732	1732	1742	1742	Sandstone	
Gordon Stray	1790	1790	1856	1856	Sandstone	
Gordon Sand	1856	1856	1921	1921	Sandstone	
5th Sand	2051	2051	2076	2076	Sandstone	
Bayard	2126	2126	2138	2138	Sandstone	
Warren	2439	2439	2464	2464	Sandstone/Siltstone	
Speechley	2750	2750	2775	2775	siltstone/Shale	
Balltown	2967	2967	3008	3002	Sandstone	
Benson	4064	4053	4074	4063	Sandstone	
Rhinestreet	5904	5880	6164	6140	Shale	
Cashaqua	6164	6140	6324	6290	shale	
Middlesex	6324	6290	6362	6325	shale	
West River	6362	6325	6437	6392	shale	
Burket	6437	6392	6476	6425	shale	
Tully	6476	6425	6613	6527	Limestone	
Hamilton	6613	6527	6807	6632	shale	
Marcellus	6807	6632	22046	6781.5	shale	

BHL is located on topo map 7,676 feet south of Latitude: 39° 12' 30"
 SHL is located on topo map 6,806 feet south of Latitude: 39° 10' 00"

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

SEE PAGE 3 FOR SURFACE OWNERS

**AS DRILLED
PLAT**

	LESSOR	DIST-TM/PAR
A	J. B. GUSMAN ET AL	20-444/11.2
B	J. A. HARDWAY ET AL	20-444/5
C	EDMOND SOUTHERN ET UX	12-424/51.4 12-424/51.2 12-424/50.4 12-424/50.1 12-424/50 12-424/49.1 12-424/49.3 12-424/48.3 12-424/48 12-424/49 12-424/48.4 12-424/48.1 12-424/36.1 12-424/39.1 12-424/39 12-424/59
E	G. W. RIFFER	12-424/38 12-424/38.1 12-424/38.3 12-424/17.3 12-424/17.1 12-424/17 12-424A/20 12-424A/19
F	GEO. W. WASHBURN ET AL	12-424/16
G	WILLIAM AND RUHAMA BURNSIDE	20-424/2 20-404/58
H	GEORGE WASHBURN ET AL	20-404/41 20-404/40 20-424/40.1 20-404/30.1
J	JACOB MCCONKEY	20-404/30 20/404/30.1 20-404/40.2 20-404/29.4 20-404/29



BHL is located on topo map 1,163 feet west of Longitude: 80° 27' 30"
 SHL is located on topo map 7,599 feet west of Longitude: 80° 25' 00"

**AS DRILLED
SURFACE HOLE LOCATION (SHL)**
 UTM 17-NAD83(M)
 N:4333345.756
 E:548091.298
 UTM 17-NAD83(FT)
 N:14216985.20
 E:1798196.20
 LAT/LON DATUM-NAD83
 LAT:39.147980
 LON:-80.443461

**AS DRILLED
APPROX. LANDING POINT**
 UTM 17-NAD83(M)
 N:4333320.863
 E:547964.501
 UTM 17-NAD83(FT)
 N:14216903.53
 E:1797780.20
 LAT/LON DATUM-NAD83
 LAT:39.147763
 LON:-80.444930

**AS DRILLED
BOTTOM HOLE LOCATION (BHL)**
 UTM 17-NAD83(M)
 N:4337694.77
 E:546425.80
 UTM 17-NAD83(FT)
 N:14231253.59
 E:1792731.98
 LAT/LON DATUM-NAD83
 LAT:39.187258
 LON:-80.462436

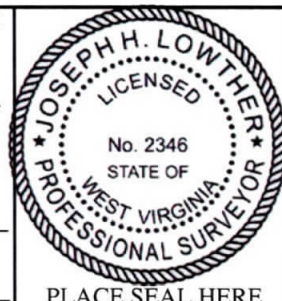
THRASHER

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 PHONE (304) 624-4108 FAX (304) 624-7831

DRAWING #: 1209 N-3H
 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. 2346



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



DATE: MAY 20, 2020
 OPERATOR'S WELL #: 1209 N-3H
 API WELL #: 47 33 05936
 STATE COUNTY PERMIT

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

WATERSHED: MIDDLE WEST FORK CREEK ELEVATION: 1,007'±

COUNTY/DISTRICT: HARRISON / UNION QUADRANGLE: WEST MILFORD, WV 7.5'

SURFACE OWNER: HG ENERGY II APPALACHIA, LLC ACREAGE: 95.06±

OIL & GAS ROYALTY OWNER: ANN COVINGTON, ET AL ACREAGE: 990.242±

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: 6,782'± TMD: 22,046'±

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

