

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

API 47-033-05954 County Harrison District Grant
Quad West Milford Pad Name Nutter 1208 Field/Pool Name _____
Farm name Linda & William Broadwater Well Number Nutter 1208 N-4H
Operator (as registered with the OOG) HG Energy II Appalachia, LLC
Address 5260 Dupont Rd. 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 14219013.96 Easting 1803616.94
Landing Point of Curve Northing 14219515.54 Easting 1804816.48
Bottom Hole Northing 14230628.50 Easting 1800909.30

Elevation (ft) 1147 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 5/07/2019 Date drilling commenced 8/27/2019 Date drilling ceased 1/6/2020
Date completion activities began 4/18/2020 Date completion activities ceased 6/10/2020
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 390 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 420,530,902 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed
NOV 25 2021 SDW

Reviewed by: _____
12/31/2021

API 47-033 - 05954 Farm name Linda & William Broadwater Well number Nutter 1208 N-4H

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"	120	New	154.5 lbs/ft		N
Surface	26"	20"	1002	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	1886	New	68 lbs/ft		Yes
Intermediate 2	12.25"	9.625"	2725	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5	5.5	19175	New	23 lbs/ft		Yes
Tubing	5.5	2.875		New	6.5 lbs/ft J-55		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	1826	15.6	1.2	2223	surface	8
Coal							
Intermediate 1	Class A	1939/551	16.0/16.4	1.16/1.12	2133/567	surface	24
Intermediate 2	Class A	838	15.6	1.19	966	surface	8
Intermediate 3							
Production	Class A	3943	14.8	1.26	5373	surface	8
Tubing	not cemented						

Drillers TD (ft) 19195 Loggers TD (ft) _____

Deepest formation penetrated Marcellus Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) _____

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 - 05954

Farm name Linda & William Broadwater

Well number Nutter 1208 N-4H

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.

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API 47- 033 - 05954 Farm name Linda & William Broadwater Well number Nutter 1208 N-4H

PRODUCING FORMATION(S)	DEPTHS	
Marcellus	6960-6973 TVD	7401-19195 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2439 psi Bottom Hole _____ psi DURATION OF TEST 766 hrs

OPEN FLOW Gas 26,904 mcfpd Oil _____ bpd NGL _____ bpd Water 1,272 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 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 Producer's
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 4/26/2021

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

12/31/2021

HG Energy II Appalachia, LLC

Nutter 1208 N-4H

Perforation Record

Stage #	Date	Perforation From Depth	Perforation To Depth	Number of perforations	Formation
Sleeve / 1	4/18/2020	19069	19022	N/A	Marcellus
2	4/18/2020	18988	18820	49	Marcellus
3	4/19/2020	18792	18624	49	Marcellus
4	4/19/2020	18596	18428	35	Marcellus
5	4/20/2020	18400	18232	35	Marcellus
6	4/20/2020	18204	18036	35	Marcellus
7	4/20/2020	18008	17840	35	Marcellus
8	4/27/2020	17812	17644	35	Marcellus
9	4/27/2020	17616	17448	35	Marcellus
10	4/29/2020	17420	17252	35	Marcellus
11	4/29/2020	17224	17056	35	Marcellus
11B	4/29/2020	17224	17018	70	Marcellus
12	4/29/2020	16993	16849	35	Marcellus
13	4/29/2020	16832	16664	35	Marcellus
14	5/1/2020	16636	16468	35	Marcellus
15	5/1/2020	16440	16272	35	Marcellus
16	5/1/2020	16244	16076	35	Marcellus
17	5/1/2020	16048	15880	35	Marcellus
18	5/4/2020	15852	15676	35	Marcellus
19	5/4/2020	15656	15488	35	Marcellus
20	5/5/2020	15460	15292	35	Marcellus
20B	5/5/2020	15460	15254	70	Marcellus
21	5/6/2020	15226	15082	35	Marcellus
22	5/6/2020	15058	14900	35	Marcellus
23	5/6/2020	14872	14704	35	Marcellus
24	5/7/2020	14676	14508	35	Marcellus
25	5/7/2020	14480	14312	35	Marcellus
26	5/8/2020	14284	14116	35	Marcellus
27	5/11/2020	14088	13920	35	Marcellus
28	5/12/2020	13892	13724	35	Marcellus
29	5/12/2020	13696	13528	35	Marcellus
30	5/12/2020	13500	13332	35	Marcellus
31	5/13/2020	13304	13136	35	Marcellus
32	5/13/2020	13108	12940	35	Marcellus
33	5/14/2020	12912	12744	35	Marcellus
34	5/14/2020	12716	12548	35	Marcellus
35	5/18/2020	12520	12352	35	Marcellus
36	5/18/2020	12324	12156	35	Marcellus
37	5/19/2020	12128	11960	35	Marcellus
38	5/19/2020	11932	11764	35	Marcellus
39	5/20/2020	11736	11568	35	Marcellus
40	5/20/2020	11540	11372	35	Marcellus
41	5/21/2020	11344	11176	35	Marcellus
42	5/21/2020	11148	10980	35	Marcellus
43	5/21/2020	10952	10784	35	Marcellus
44	5/25/2020	10756	10588	35	Marcellus
45	5/25/2020	10560	10392	35	Marcellus
46	5/26/2020	10364	10196	35	Marcellus
47	5/26/2020	10168	10000	35	Marcellus
48	5/27/2020	9972	9804	35	Marcellus
49	5/28/2020	9776	9608	35	Marcellus
50	5/28/2020	9580	9412	35	Marcellus
51	6/1/2020	9384	9216	35	Marcellus
52	6/1/2020	9188	9020	35	Marcellus
53	6/1/2020	8992	8824	35	Marcellus
54	6/2/2020	8796	8628	35	Marcellus
55	6/2/2020	8600	8432	35	Marcellus
56	6/8/2020	8404	8236	35	Marcellus
57	6/8/2020	8208	8040	28	Marcellus
58	6/9/2020	8012	7844	28	Marcellus
59	6/9/2020	7816	7648	28	Marcellus
60	6/10/2020	7620	7452	28	Marcellus

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HG Energy II Appalachia, LLC

Nutter 1208 N-4H

Stimulation Record

Stage #	Date	Average Pump Rate (BPM)	Average Treatment Pressure (PSI)	Maximum Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBls)
Sleeve / 1	4/18/2020	74.8	9570	10001	3237	37000	15997
2	4/18/2020	79	9,450	11,236	4,630	392480	11,425
3	4/19/2020	80	8,923	10,993	4,814	699680	14,293
4	4/19/2020	81	8,851	10,612	4,794	486760	13,521
5	4/20/2020	81	8,608	10,252	4,768	702650	16,349
6	4/20/2020	80	8,759	11,225	5,029	703920	14,040
7	4/20/2020	80	9,333	10,588	4,766	696460	13,352
8	4/27/2020	84	9,584	10,926	5,160	703230	13,179
9	4/27/2020	87	10,357	11,450	5,448	705700	11,910
10	4/29/2020	76	9,845	11,803	5,243	624180	16,594
11	4/29/2020	47	10,442	11,843	6,108	10170	4,728
11B	4/29/2020	83	9,268	10,527	5,498	696860	11,607
12	4/29/2020	81	9,151	9,941	5,250	530820	10,545
13	4/29/2020	80	9,348	10,901	5,071	520630	10,639
14	5/1/2020	87	9,464	9,987	5,392	744940	14,098
15	5/1/2020	83	9,632	10,462	5,380	743200	15,417
16	5/1/2020	90	9,469	10,230	5,061	716410	13,750
17	5/1/2020	84	9,382	10,161	5,023	741530	17,456
18	5/4/2020	79	9,139	9,998	5,368	744580	14,371
19	5/4/2020	89	9,124	9,682	5,424	744500	11,751
20	5/5/2020	60	10,277	11,125	6,054	11610	4,301
20B	5/5/2020	90	9,280	10,163	5,181	730150	11,573
21	5/6/2020	88	9,517	10,136	5,872	741560	11,875
22	5/6/2020	89	9,986	10,449	5,224	579660	12,986
23	5/6/2020	88	9,630	10,299	5,268	664230	14,288
24	5/7/2020	93	8,860	9,714	4,154	747160	14,569
25	5/7/2020	92	9,085	9,840	4,487	742500	14,424
26	5/8/2020	88	9,534	10,559	5,349	739900	12,365
27	5/11/2020	89	9,352	9,886	6,024	742700	10,384
28	5/12/2020	90	9,166	9,764	5,746	604400	9,299
29	5/12/2020	89	8,932	9,881	4,325	740500	13,193
30	5/12/2020	90	9,038	10,313	4,488	724000	11,685
31	5/13/2020	84	9,156	10,596	4,647	724400	10,822
32	5/13/2020	82	8,968	10,357	4,505	722400	9,959
33	5/14/2020	84	9,202	10,405	4,105	720400	10,671
34	5/14/2020	87	8,960	9,904	4,222	726400	10,077
35	5/18/2020	89	8,831	9,937	4,596	722700	10,244
36	5/18/2020	86	8,196	8,706	4,935	625200	9,511
37	5/19/2020	90	8,918	8,918	4,670	586100	9,394
38	5/19/2020	89	8,613	9,693	4,059	724900	9,969
39	5/20/2020	87	8,651	9,860	4,749	723200	9,641
40	5/20/2020	88	8,850	9,936	4,418	724050	11,798
41	5/21/2020	90	8,990	10,094	4,672	617390	9,435
42	5/21/2020	90	8,591	9,869	4,404	724160	10,281
43	5/21/2020	93	8,618	9,092	4,500	720100	11,936
44	5/25/2020	91	8,525	9,129	4,967	684380	11,359
45	5/25/2020	93	9,001	9,898	4,357	478130	9,581
46	5/26/2020	91	8,995	9,056	4,100	677310	12,587
47	5/26/2020	91	8,095	8,751	4,739	661960	9,646
48	5/27/2020	91	7,794	8,446	5,175	687770	11,311
49	5/28/2020	89	7,907	9,440	4,557	720530	12,551
50	5/28/2020	88	8,183	9,314	4,770	721650	9,574
51	6/1/2020	92	8,755	9,973	4,702	724200	9,737
52	6/1/2020	90	8,506	10,156	5032	725500	9821
53	6/1/2020	88	8,669	10,076	4,638	723200	11,167
54	6/2/2020	89	8,308	9,997	4,448	722600	10,000
55	6/2/2020	87	8,007	9,462	4,464	720740	11,891
56	6/8/2020	89	7,972	8,883	4,447	723770	11,094
57	6/8/2020	89	8,116	9,733	4,344	718520	9,888
58	6/9/2020	90	8,002	8,946	4,888	729060	10,840
59	6/9/2020	87	8,419	10,773	4,896	672830	9,601
60	6/10/2020	90	8,540	9,751	4,267	588380	9,338

12/31/2021

API 47- 033 - 05954 Farm name Nutter Well number Nutter 1208 N-4H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6960-6973</u>	<u>TVD</u>	<u>7401-19195</u> <u>MD</u>

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2439 psi Bottom Hole _____ psi DURATION OF TEST 766 hrs

OPEN FLOW Gas 26,904 mcfpd Oil _____ bpd NGL _____ bpd Water 1,272 bpd
GAS MEASURED BY Estimated Orifice Pilot

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
	<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 Producer's
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 4/26/2021

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

12/31/2021

HG Energy II Appalachia, LLC
Nutter 1208 N-4H
Formation Schedule

Formation	Top Depth TMD	Top Depth TVD	Bottom Depth TMD	Bottom Depth TVD	Rock Type, Type of Fluid, Gas, Oil	Oil, Gas, Water
Water show	390	390	392	392	1/4" stream	
Coal	420	420	425	425	Coal	
Coal	530	530	533	533	Coal	
1st Salt Sand	733	733	793	793	Sandstone/Siltstone	
2nd Salt Sand	867	867	937	937	Sandstone/siltstone	
Coal	902	902	905	905	Coal	
3rd Salt Sand	973	973	1064	1064	Sand/Siltstone, red shale	
Little Lime	1297	1297	1312	1312	Limestone	
Big Lime	1340	1340	1413	1413	Limestone	
Big Injun	1413	1413	1517	1517	Sandstone	
Gantz (storage)	1728	1728	1777	1777	Sandstone	56 units gas
50' Sand	1840	1840	1905	1905	Sandstone	
30 foot Sand	1932	1932	1940	1940	Sandstone	
Gordon Stray	1992	1992	2028	2028	Sandstone	
Gordon/Forth Sand	2035	2035	2115	2115	Sandstone	
5th Sand	2245	2245	2268	2268	Sandstone	
Bayard	2323	2323	2355	2355	Sandstone	
Speechley	2955	2955	2995	2995	Sandstone/Siltstone	
Balltown	3171	3171	3211	3211	siltstone/Shale	
Bradford	3659	3659	3699	3699	Sandstone	
Benson	4417	4349	4427	4359	Sandstone	
Rhinestreet	5780	5618	6501	6295	Shale	
Cashaqua	6501	6295	6753	6528	shale	
Middlesex	6753	6528	6853	6616	shale	
West River	6853	6616	7021	6749	shale	
Burket	7021	6749	7085	6794	shale	
Tully	7085	6794	7257	6895	Limestone	
Hamilton	7257	6895	7401	6960	shale	Only slight connection peaks before displacing with OBM (less than 20 units above background)
Marcellus	7401	6960	19195	6973	shale	

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12/31/2021

4,851' to Bottom Hole

2,216' to Top Hole

BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00

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 rules issued and prescribed by the Department of Environmental Protection.

Dwayne D. Matheny
Dwayne D. Matheny, P.S. 2070

LONGITUDE 80 - 25 - 00
4,843' to Top Hole
8,381' to Bottom Hole

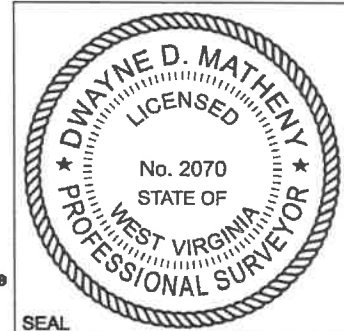
Tag	Bearing	Dist.
L1	N 87°45' W	1,341.5'
L2	N 65°15' W	1,186.8'
L3	S 39°04' E	1,190.0'
L4	S 23°11' E	1,194.5'



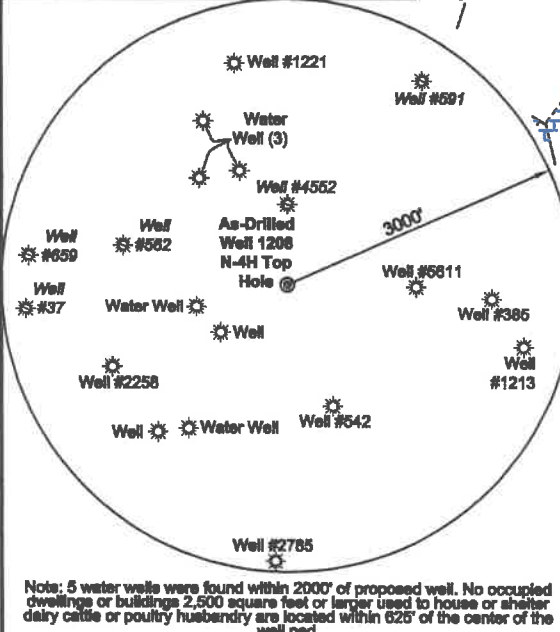
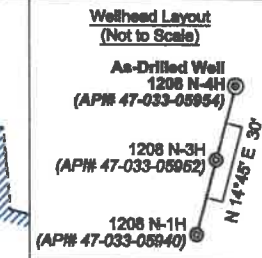
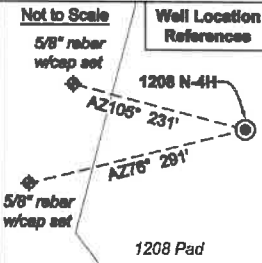
Notes:
Well No. 1208 N-4H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,219,013.96' E: 1,803,816.94'
Landing Point Coordinates
N: 14,219,515.54' E: 1,804,816.48'
Bottom Hole Coordinates
N: 14,230,626.50' E: 1,800,909.30'

Notes: Well No. 1208 N-4H
West Virginia Coordinate System of 1927, South Zone based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'12.12" Latitude: 39°11'07.13"
Longitude: 80°25'28.14" Longitude: 80°26'01.60"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,904.123m N: 4,337,504.242m
E: 549,743.543m E: 548,918.252m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

Top Hole
7.5' Spot



- Legend
- Proposed gas well
 - Well Reference, as noted
 - Monument, as noted
 - Existing Well, as noted
 - Existing Plugged Well, as noted
 - Digitized Well, as noted
 - Creek or Drain
 - Existing Road
 - Surface boundary (approx.)
 - Interior surface tracts (approx.)



Note: 5 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

FILE NO: 195-36-G-18
DRAWING NO: 1208 N-4H As-Drilled Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: April 28 20 20
OPERATOR'S WELL NO. 1208 N-4H
API WELL NO
47 - 033 - 05954
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,147' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union
SURFACE OWNER: Linda & William W. Brodwater III
ROYALTY OWNER: Leeman B. Maxwell Heirs, et al LEASE NO: ACREAGE: 247.84
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 18,195' MD 6,973' TVD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101



ID	Lease
1	Jerome B. Guzman
2	Leeman B. Maxwell Heirs
6	Leeman B. Maxwell Heirs
7	Leeman Maxwell, et ux
9	Rebecca F. Reed, et al
10	Rebecca D. Reed, et al
14	Joseph Cheuvront, et al
15	Howard W. Vanscoy, et al
16	Howard W. Vanscoy, et al
18	George W. Washburn, et al
19	Lloyd Washburn, et al

No.	TM / Par	Owner	Bk / Pg	Ac.
36	404 / 17.1	Dameon Tyler Hall	1556 / 320	0.75
34	404 / 19	Terry Waldon & Regina T. Tallman	1357 / 569	3.56
33	404 / 18	Russell A. Suder	1113 / 88	2.02
32	404 / 17	Mary Jo Short	808 / 456	0.83
31	404 / 16.1		761 / 822	1.82
30	404 / 16.2	Richard Vance Short	1262 / 155	0.06
29	404 / 16	Jeffrey & Victoria J. Roark	1518 / 173	3.06
28	404 / 22	John L. & Mary Beth Slanger	1260 / 455	70.90
27	405 / 59	Terence L. Washburn	1294 / 433	43.40
26	404 / 34	Callwell J. & Patricia F. Hutson	1209 / 163	11.00
25	404 / 35	Bruce W. & Luella R. Cayton	1029 / 339	12.80
24	404 / 36	Dennis J. Burnside	1326 / 149	16.30
23	404 / 37			
22	404 / 55	Larry & Rebecca Myers	WB146 / 1089	18.10
21	404 / 38	Rebecca D. Arther	1504 / 1251	34.48
20	404 / 56	Jacob Walter & Karen A. Post	1350 / 1076	5.50
19	405 / 75	William Michael McDonald	1377 / 99	202.18
18	425 / 1	Joel B. Shuman, et al	WB166/472	89.00
17	425 / 25.4	Ronald L. & Mary Jo Hill	1193 / 304	4.55
16	425 / 2.1	Del Marie Bronn	1339 / 100	7.40
15	425 / 2	Lonzo A. & Erica Martin	1569 / 1078	5.035
14	425 / 25.2	Laurinda R. Beckstead	1420 / 941	83.199
13	425 / 2.2	Jennifer Irene McWhorter	1422 / 1117	26.66
12	425 / 33	David A. & Julie Keesucker	1262 / 81	34.70
11	425 / 33.4	David J. & Angeena K. Keesucker	1439 / 457	3.01
10	425 / 33.3	Earl Milton Jenkins	1295 / 521	2.00
9	425 / 24	Linda J. Maxwell Revocable Trust	1302 / 793	19.60
8	425 / 25			212.80
7	425 / 31.3	Gary S. & Melinda M. Brodwater	1354 / 175	2.00
6	425 / 31.1	Dona R. & David R. Scarff	1360 / 652	1.00
5	425 / 31.2	Linda & William W. Brodwater III	1343 / 1279	1.16
4	445 / 1		- / -	87.78
3	445 / 10	Lisa M. Nutter	WB 887 / 445	88.87
2	445 / 2			84.57
1	425 / 31	Linda & William W. Brodwater III	1410 / 1045	247.84

FILE NO: 195-36-G-18
 DRAWING NO: 1208 N-4H As-Drilled Well Plat
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY: Submeter
 PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV



DATE: April 28 2020
 OPERATOR'S WELL NO. 1208 N-4H
 API WELL NO
47 - 033 - 05954
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,147' WATERSHED: Middle West Fork Creek

QUADRANGLE: West Milford

DISTRICT: Grant / Union

COUNTY: Harrison

SURFACE OWNER: Linda & William W. Brodwater III

ACREAGE: 247.84 **12/31/2021**

ROYALTY OWNER: Leeman B. Maxwell Heirs, et al

LEASE NO: _____ ACREAGE: 247.84

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,195' MD 6,973' TVD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101



No.	TM / Par	Owner	Bk / Pg	Ac.
35	404 / 17.1	Damon Tyler Hall	1558 / 320	0.75
34	404 / 19	Terry Waldon & Regina T. Tallman	1357 / 589	3.56
33	404 / 18	Russell A. Suder	1113 / 88	2.02
32	404 / 17	Mary Jo Short	808 / 456	0.83
31	404 / 16.1		781 / 822	1.82
30	404 / 16.2	Richard Vance Short	1282 / 155	0.06
29	404 / 16	Jeffrey & Victoria J. Rosk	1260 / 456	70.90
28	404 / 22	John L. & Mary Beth Stenger	1518 / 173	3.06
27	405 / 59	Terence L. Washburn	1294 / 433	43.40
26	404 / 34	Callwell J. & Patricia F. Hutson	1209 / 163	11.00
25	404 / 35	Bruce W. & Lusia R. Cayton	1029 / 339	12.80
24	404 / 36	Dennis J. Bunside	1328 / 149	16.30
23	404 / 37	Larry & Rebecca Myers	WB148 / 1089	18.10
22	404 / 55			54.74
21	404 / 38	Rebecca D. Arther	1504 / 1251	34.48
20	404 / 56	Jacob Walter & Karen A. Post	1350 / 1078	5.50
19	405 / 75	William Michael McDonald	1377 / 99	202.18
18	425 / 1	Joel B. Shuman, et al	WB166/472	89.00
17	425 / 25.4	Ronald L. & Mary Jo Hitt	1193 / 304	4.55
16	425 / 2.1	Del Marie Brenn	1339 / 100	7.40
15	425 / 2	Lonzo A. & Erica Martin	1569 / 1078	5.035
14	425 / 25.2	Laurinda R. Beckstead	1420 / 941	83.199
13	425 / 2.2	Jennifer Irene McWhorter	1422 / 1117	26.66
12	425 / 33	David A. & Julie Keeucker	1262 / 81	34.70
11	425 / 33.4	David J. & Angeana K. Keeucker	1439 / 457	3.01
10	425 / 33.3	Earl Milton Jenkins	1285 / 521	2.00
9	425 / 24	Linda J. Maxwell Revocable Trust	1302 / 793	19.80
8	425 / 25			212.80
7	425 / 31.3	Gary S. & Melinda M. Brodwater	1354 / 175	2.00
6	425 / 31.1	Dona R. & David R. Scarff	1380 / 652	1.00
5	425 / 31.2	Linda & William W. Brodwater III	1343 / 1279	1.16
4	445 / 1		- / -	87.78
3	445 / 10	Lisa M. Nutter	WB 687 / 445	66.87
2	445 / 2			84.57
1	425 / 31	Linda & William W. Brodwater III	1410 / 1045	247.84

ID	Lessee
1	Jerome B. Guaman
2	Leeman B. Maxwell Heirs
6	Leeman B. Maxwell Heirs
7	Leeman Maxwell, et ux
9	Rebecca F. Reed, et al
10	Rebecca D. Reed, et al
14	Joseph Cheuvront, et al
15	Howard W. Vanecoy, et al
16	Howard W. Vanecoy, et al
18	George W. Washburn, et al
19	Lloyd Washburn, et al

FILE NO: 195-36-G-18
 DRAWING NO: 1208 N-4H As-Drilled Well Plat
 SCALE: 1" = 1500'
 MINIMUM DEGREE OF ACCURACY:
Submeter
 PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

STATE OF WEST VIRGINIA
 DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: April 28 20 20
 OPERATOR'S WELL NO. 1208 N-4H
 API WELL NO
47 - 033 - 05954
 STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
 (IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,147' WATERSHED: Middle West Fork Creek

QUADRANGLE: West Millford

DISTRICT: Grant / Union

COUNTY: Harrison

SURFACE OWNER: Linda & William W. Brodwater III

ACREAGE: 206

ROYALTY OWNER: Leeman B. Maxwell Heirs, et al

LEASE NO: _____ ACREAGE: 247.84

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 6,973' TVD
19,195' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

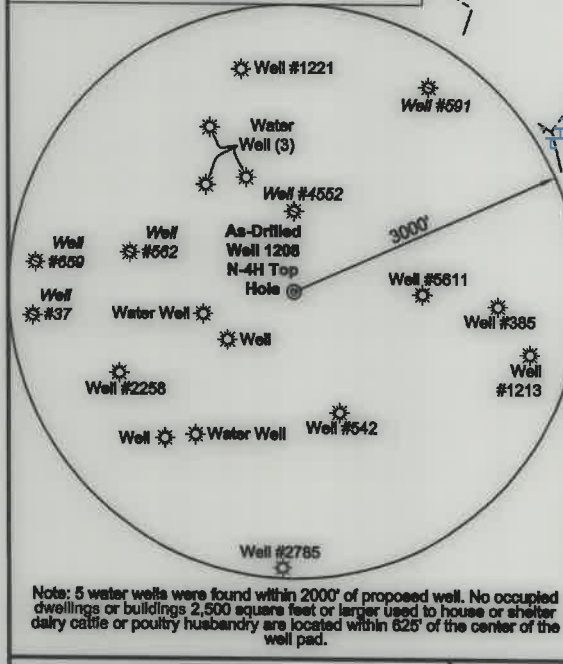
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

Tag	Bearing	Dist.
L1	N 87°46' W	1,341.5'
L2	N 65°18' W	1,186.8'
L3	S 39°04' E	1,190.0'
L4	S 23°11' E	1,194.5'



Notes:
Well No. 1208 N-4H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,219,013.96' E: 1,803,616.94'
Landing Point Coordinates
N: 14,219,515.54' E: 1,804,616.48'
Bottom Hole Coordinates
N: 14,230,628.50' E: 1,800,909.30'

Notes: Well No. 1208 N-4H
West Virginia Coordinate System of 1927, South Zone based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'12.12" Latitude: 39°11'07.13"
Longitude: 80°25'28.14" Longitude: 80°26'01.60"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,964.123m N: 4,337,504.242m
E: 549,743.543m E: 548,918.252m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.



Note: 5 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

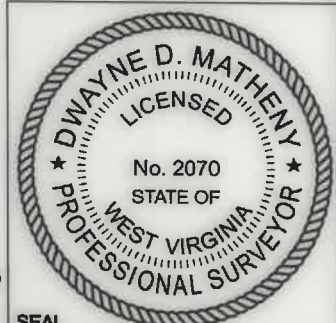
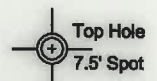
4,851' to Bottom Hole
2,216' to Top Hole

BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00

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 rules issued and prescribed by the Department of Environmental Protection.

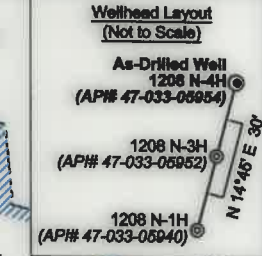
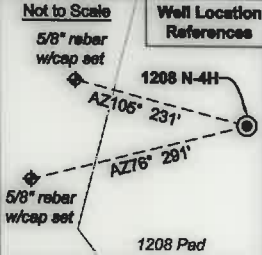
Dwayne D. Matheny
Dwayne D. Matheny, P.S. 2070

LONGITUDE 80 - 25 - 00
4,843' to Top Hole
8,381' to Bottom Hole



Legend

- Proposed gas well
- Well Reference, as noted
- Monument, as noted
- Existing Well, as noted
- Existing Plugged Well, as noted
- Digitized Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)



FILE NO: 195-36-G-18
DRAWING NO: 1208 N-4H As-Drilled Well Plat
SCALE: 1" = 1500'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: April 28 20 20
OPERATOR'S WELL NO. 1208 N-4H
API WELL NO
47 - 033 - 05954
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,147' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union
SURFACE OWNER: Linda & William W. Brodwater III
ROYALTY OWNER: Leeman B. Maxwell Heirs, et al LEASE NO: _____ ACREAGE: 247.84
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,195' MD 6,973' TVD

WELL OPERATOR: HG Energy II Appalachia, LLC
ADDRESS: 5260 Dupont Road Parkersburg, WV 26101
DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road Parkersburg, WV 26101

12/31/2021

