

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

API 47 - 033 - 05960 County Harrison District Grant
Quad West Milford Pad Name Nutter 1208 Field/Pool Name _____
Farm name Linda & William Broadwater Well Number Nutter 1208 S-7H
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 14218875.58 Easting 1803904.66
Landing Point of Curve Northing 14218403.49 Easting 1802592.45
Bottom Hole Northing 14204930.90 Easting 1807764.70

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 9/24/2019 Date drilling commenced 9/27/2019 Date drilling ceased 2/5/2020
Date completion activities began 10/15/2020 Date completion activities ceased 12/12/2020
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
SPW
NOV 5 3 2021

Reviewed by: _____

12/31/2021

API 47-033 - 05960 Farm name Linda & William Broadwater Well number Nutter 1208 S-7H

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"	1001	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	1887	New	68 lbs/ft		Yes
Intermediate 2	12.25"	9.625"	2736	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5	5.5	21742	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	1715	15.6	1.18	2021	surface	8
Coal							
Intermediate 1	Class A	1944/521	16.0/16.4	1.16/1.12	2257/584	surface	24
Intermediate 2	Class A	846	15.6	1.19	1055	surface	8
Intermediate 3							
Production	Class A	4558	14.8	1.33	6063	surface	8
Tubing	not cemented						

Drillers TD (ft) 21770 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 - 05960 Farm name Linda & William Broadwater Well number Nutter 1208 S-7H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Marcellus</u>	<u>6920-6986</u>	<u>TVD</u>	<u>7318-21770</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 2,518 psi Bottom Hole _____ psi DURATION OF TEST 710 hrs

OPEN FLOW Gas 31,464 mcfpd Oil _____ bpd NGL _____ bpd Water 2,376 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 ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	<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 4/26/2021

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

12/31/2021

**HG Energy II Appalachia, LLC
Nutter 1208 S-7H
Perforation Record**

Stage #	Date	Perforation From Depth	Perforation To Depth	Number of perforations	Formation
Sleeve / 1	10/15/2020	22747	22698	N/A	Marcellus
2	10/17/2020	22663	22495	49	Marcellus
3	11/2/2020	22465	22297	42	Marcellus
4	11/3/2020	22267	22099	28	Marcellus
5	11/4/2020	22069	21901	28	Marcellus
6	11/4/2020	21871	21703	28	Marcellus
7	11/5/2020	21673	21505	28	Marcellus
8	11/7/2020	21475	21307	28	Marcellus
9	11/8/2020	21277	21109	28	Marcellus
10	11/8/2020	21079	20911	28	Marcellus
11	11/9/2020	20881	20713	28	Marcellus
12	11/10/2020	20683	20515	28	Marcellus
13	11/10/2020	20485	20317	28	Marcellus
14	11/11/2020	20287	20119	28	Marcellus
15	11/11/2020	20089	19921	28	Marcellus
16	11/12/2020	19891	19723	28	Marcellus
17	11/13/2020	19693	19525	28	Marcellus
18	11/14/2020	19495	19327	28	Marcellus
19	11/14/2020	19297	19129	28	Marcellus
20	11/15/2020	19099	18931	28	Marcellus
21	11/16/2020	18901	18733	28	Marcellus
22	11/16/2020	18703	18535	28	Marcellus
23	11/17/2020	18505	18337	28	Marcellus
24	11/18/2020	18307	18139	28	Marcellus
25	11/18/2020	18109	17941	28	Marcellus
26	11/19/2020	17911	17743	28	Marcellus
27	11/20/2020	17713	17545	28	Marcellus
28	11/21/2020	17515	17347	28	Marcellus
29	11/22/2020	17317	17149	28	Marcellus
30	11/22/2020	17119	16951	28	Marcellus
31	11/23/2020	16921	16753	28	Marcellus
32	11/24/2020	16723	16555	28	Marcellus
33	11/25/2020	16525	16357	28	Marcellus
34	11/25/2020	16327	16159	28	Marcellus
35	11/28/2020	16129	15961	28	Marcellus
36	11/28/2020	15931	15763	28	Marcellus
37	11/28/2020	15733	15565	28	Marcellus
38	11/29/2020	15535	15367	28	Marcellus
39	11/29/2020	15337	15169	28	Marcellus
40	11/30/2020	15139	14971	28	Marcellus
41	12/1/2020	14941	14773	28	Marcellus
42	12/2/2020	14743	14575	28	Marcellus
43	12/2/2020	14545	14377	28	Marcellus
44	12/3/2020	14348	14180	28	Marcellus
45	12/3/2020	14152	13984	28	Marcellus
46	12/3/2020	13956	13788	28	Marcellus
47	12/4/2020	13760	13592	28	Marcellus
48	12/4/2020	13564	13396	28	Marcellus
49	12/5/2020	13368	13200	28	Marcellus
50	12/5/2020	13172	13004	28	Marcellus
51	12/6/2020	12978	12834	28	Marcellus
52	12/6/2020	12808	12640	28	Marcellus
53	12/6/2020	12612	12444	28	Marcellus
54	12/6/2020	12416	12248	28	Marcellus
55	12/7/2020	12220	12052	28	Marcellus
56	12/7/2020	12024	11856	28	Marcellus
57	12/7/2020	11828	11660	28	Marcellus
58	12/7/2020	11632	11464	28	Marcellus
59	12/8/2020	11436	11268	28	Marcellus
60	12/8/2020	11240	11072	28	Marcellus
61	12/8/2020	11044	10876	28	Marcellus
62	12/8/2020	10848	10680	28	Marcellus
63	12/8/2020	10652	10484	28	Marcellus
64	12/8/2020	10456	10288	28	Marcellus
65	12/9/2020	10260	10092	28	Marcellus
66	12/9/2020	10064	9896	28	Marcellus
67	12/9/2020	9868	9700	28	Marcellus
68	12/9/2020	9672	9504	28	Marcellus
69	12/9/2020	9476	9308	28	Marcellus
70	12/10/2020	9280	9112	28	Marcellus
71	12/10/2020	9084	8916	28	Marcellus
72	12/10/2020	8888	8720	28	Marcellus
73	12/11/2020	8692	8524	28	Marcellus
74	12/11/2020	8496	8328	28	Marcellus
75	12/11/2020	8300	8132	28	Marcellus
76	12/11/2020	8104	7936	28	Marcellus
77	12/11/2020	7908	7740	28	Marcellus
78	12/12/2020	7712	7544	28	Marcellus
79	12/12/2020	7516	7348	28	Marcellus
80	12/12/2020	7320	7152	28	Marcellus

12/31/2021

HG Energy II Appalachia, LLC
Nutter 1208 S-7H
Stimulation Record

Stage #	Date	Average Pump Rate (BPM)	Average Treatment Pressure (PSI)	Maximum Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBls)
Sleeve / 1	10/15/2020	73.2	8719	9413	4825	48000	35288
2	10/17/2020	74	9,938	10,628	4,854	703730	13,524
3	11/2/2020	79.4	9,749	10,974	5,480	708600	13,920
4	11/3/2020	78.2	9,729	10,358	5,680	700700	13,771
5	11/4/2020	79	9,608	10,222	5,610	704900	12,452
6	11/4/2020	81.7	9,514	10,178	5,345	704260	12,665
7	11/5/2020	81.8	9,581	9,911	5,390	701690	11,739
8	11/7/2020	85.4	9,915	10,213	5,920	707120	11,807
9	11/8/2020	86.3	9,961	10,459	5,980	705610	9,794
10	11/8/2020	83.6	10,414	10,888	5,420	663390	9,567
11	11/9/2020	81.5	9,835	11,457	5,440	709800	9,731
12	11/10/2020	80	9,837	11,003	5,320	708700	9,910
13	11/10/2020	81.3	9,896	10,751	4,783	707300	9,787
14	11/11/2020	83.9	9,882	10,907	4,808	631600	9,476
15	11/11/2020	85.6	9,614	10,869	5,014	709200	9,667
16	11/12/2020	77.3	9,845	10,546	4,621	626100	9,218
17	11/13/2020	80.9	9,869	10,831	4,884	704700	9,613
18	11/14/2020	83.6	9,753	10,872	5,460	704900	9,838
19	11/14/2020	83.3	9,803	10,446	4,714	706960	9,753
20	11/15/2020	82.8	9,727	10,679	5,410	709120	9,702
21	11/16/2020	85	9,883	10,543	5,485	706210	9,751
22	11/16/2020	85.3	9,625	9,912	5,870	709620	9,734
23	11/17/2020	84.2	9,734	9,937	5,610	705240	9,717
24	11/18/2020	90.5	9,141	9,892	5,441	703220	9,725
25	11/18/2020	90.5	9,241	9,798	4,910	615470	10,789
26	11/19/2020	92.4	9,271	9,768	5,310	704630	9,663
27	11/20/2020	103.2	9,850	10,634	5,432	709870	9,841
28	11/21/2020	101.8	9,614	10,457	5,880	668290	9,637
29	11/22/2020	104.1	9,685	10,331	4,518	628910	9,372
30	11/22/2020	103.5	9,852	10,383	4,509	705810	9,877
31	11/23/2020	103.7	9,825	10,347	5,817	707460	9,683
32	11/24/2020	102	9,590	10,705	5,230	601620	9,271
33	11/25/2020	102.7	9,725	10,143	4,880	709050	9,895
34	11/25/2020	104.1	9,716	10,240	5,719	708040	9,918
35	11/28/2020	102.9	9,570	10,151	5,690	706340	9,860
36	11/28/2020	105.4	9,412	10,045	5,005	705410	9,831
37	11/28/2020	104.1	9,515	10,358	5,920	675950	9,486
38	11/29/2020	104.5	9,302	9,658	4,702	706210	9,713
39	11/29/2020	107.4	9,554	10,195	4,615	692630	9,577
40	11/30/2020	102.3	9,208	10,028	4,940	690460	9,515
41	12/1/2020	102.1	9,590	10,247	5,405	690780	9,651
42	12/2/2020	105.9	9,377	9,957	5,480	694620	9,705
43	12/2/2020	103.4	9,202	10,476	5,450	690560	9,694
44	12/3/2020	105.2	9,475	9,991	5,290	689360	9,491
45	12/3/2020	103.7	9,331	10,549	4,814	690880	9,658
46	12/3/2020	106.7	9,242	9,819	5,191	693280	9,403
47	12/4/2020	104.8	9,122	9,554	5,650	690030	9,706
48	12/4/2020	107	8,962	9,579	5,260	690420	9,196
49	12/5/2020	100.5	8,859	10,664	5,547	688920	9,664
50	12/5/2020	103.1	8,923	9,507	5,848	690290	9,392
51	12/6/2020	101.3	9,344	9,986	5,677	692880	9,365
52	12/6/2020	107.6	8,849	9,486	5,420	694280	9,237
53	12/6/2020	105.4	9,100	9,550	4,470	692920	9,662
54	12/6/2020	100.3	8,269	9,025	4,760	693970	9,618
55	12/7/2020	105.5	8,612	9,307	4,860	689970	9,129
56	12/7/2020	99	8,547	9,569	4,927	631930	8,607
57	12/7/2020	106	8,810	9,358	5,130	694460	9,719
58	12/7/2020	107	8,960	9,602	5,520	693410	9,700
59	12/8/2020	108.2	8,443	8,888	5,147	689140	9,159
60	12/8/2020	106.4	8,300	8,829	4,598	691970	9,182
61	12/8/2020	106	8,542	9,127	4,460	686440	10,987
62	12/8/2020	105	8,130	8,682	5,720	692310	9,505
63	12/8/2020	105	8,230	8,632	4,905	690340	9,591
64	12/8/2020	105.4	8,522	8,935	5,147	693030	9,630
65	12/9/2020	105.6	8,178	8,531	5,850	690180	8,982
66	12/9/2020	107	8,463	9,139	4,740	636060	9,226
67	12/9/2020	104	7,700	8,164	4,890	692720	9,639
68	12/9/2020	105.9	7,784	8,454	5,070	690020	9,636
69	12/9/2020	108	8,042	8,294	5,189	690000	9,076
70	12/10/2020	108.3	7,935	8,335	4,729	691220	8,945
71	12/10/2020	105	7,767	8,275	5,155	693640	9,641
72	12/10/2020	104.1	8,537	9,749	4,998	692280	10,751
73	12/11/2020	105.8	8,449	10,567	5,344	696320	9,516
74	12/11/2020	106	8,055	9,143	5,128	690710	9,645
75	12/11/2020	105	7,780	9,148	5,620	691060	9,675
76	12/11/2020	106	7,751	8,667	5,320	692080	9,573
77	12/11/2020	107	7,946	8,393	5,594	696260	9,647
78	12/12/2020	106.8	8,354	9,418	5,728	690070	9,372
79	12/12/2020	101	8,527	10,548	5,960	546040	8,707
80	12/12/2020	107	7,784	8,632	5,050	753920	11,055

12/31/2021

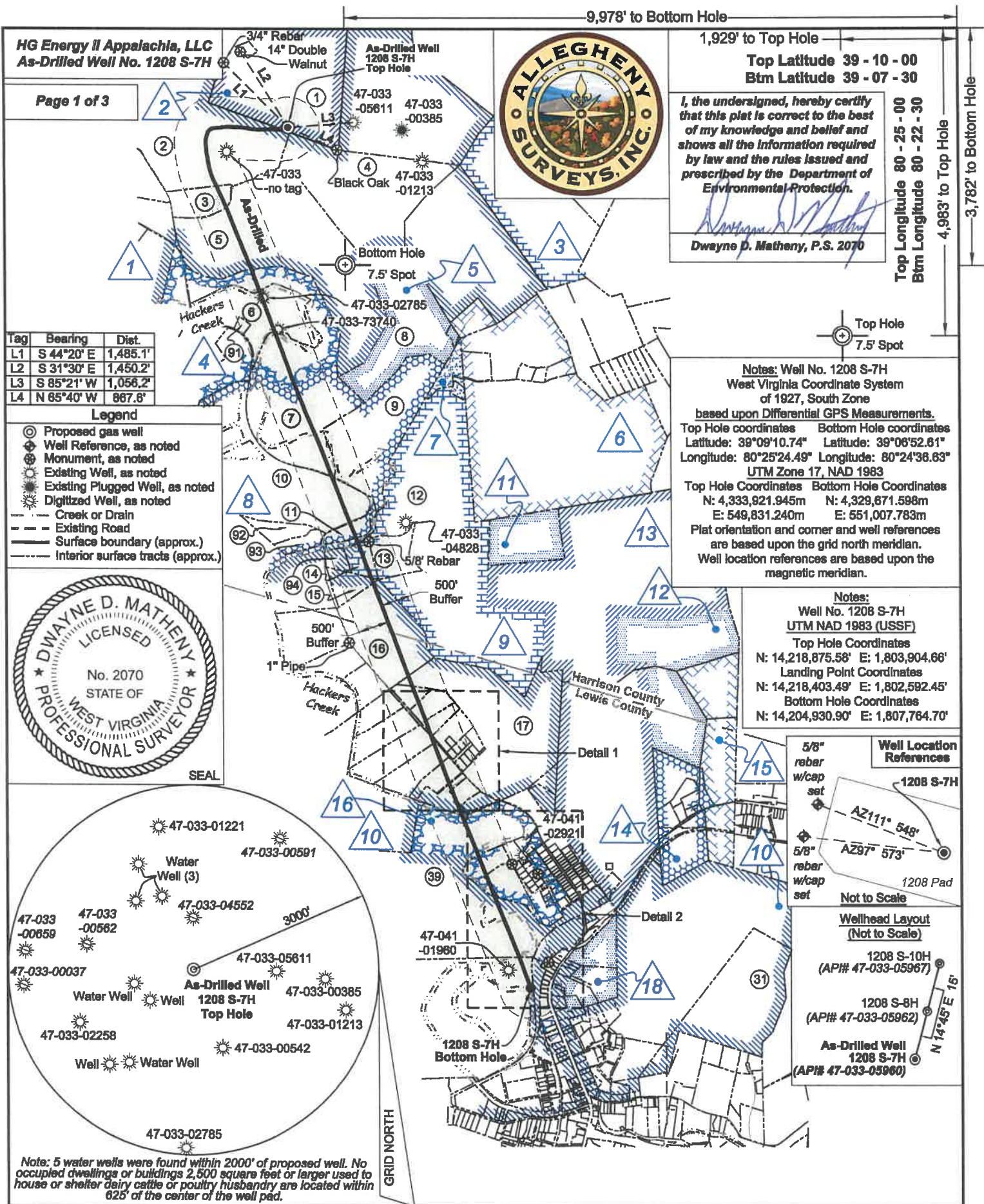
HG Energy II Appalachia, LLC
Nutter 1208 S-7H
Formation Schedule

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	First gas show 760' 627 units
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	
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	2247	2246	2272	2271	Sandstone	
Bayard	2325	2323	2355	2353	Sandstone	
Speechley	2959	2957	2979	2977	Sandstone/Siltstone	
Balltown	3174	3170	3214	3210	siltstone/Shale	
Bradford	3733	3697	3774	3737	Sandstone	
Benson	4435	4353	4445	4363	Sandstone	
Rhinestreet	5807	5634	6531	6304	Shale	
Cashaqua	6531	6304	6784	6531	shale	
Middlesex	6784	6531	6883	6616	shale	
West River	6883	6616	7017	6726	shale	
Burket	7017	6726	7058	6757	shale	
Tully	7058	6757	7210	6862	Limestone	
Hamilton	7210	6862	7318	6920	shale	Only slight connection peaks before displacing with OBM (less than 20 units above background)
Marcellus	7318	6920	21770	6986	shale	

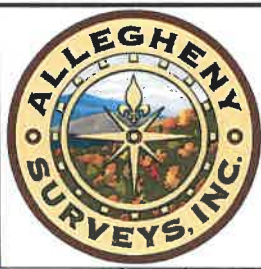
NOV 30 2021

DEPARTMENT OF
 ENERGY & ENVIRONMENT

12/31/2021



HG Energy II Appalachia, LLC
As-Drilled Well No. 1208 S-7H



1,929' to Top Hole
Top Latitude 39 - 10 - 00
Btm Latitude 39 - 07 - 30
Top Longitude 80 - 25 - 00
Btm Longitude 80 - 22 - 30
4,983' to Top Hole
3,782' to Bottom Hole

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, P.S. 2070

Page 1 of 3

Tag	Bearing	Dist.
L1	S 44°20' E	1,485.1'
L2	S 31°30' E	1,450.2'
L3	S 85°21' W	1,056.2'
L4	N 65°40' W	867.8'

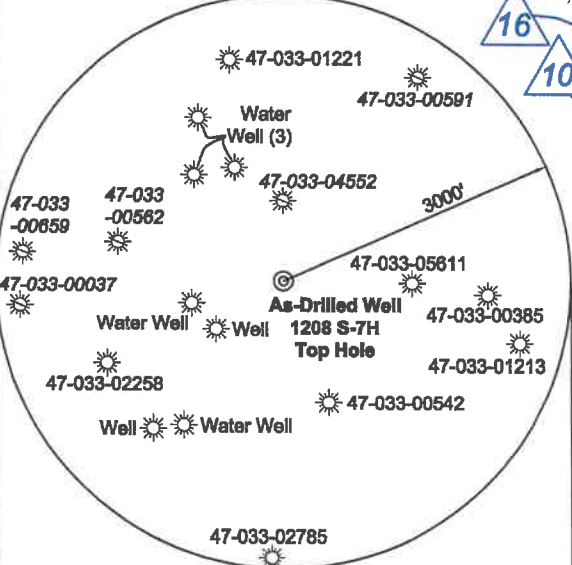
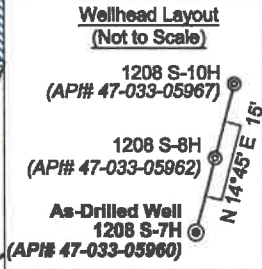
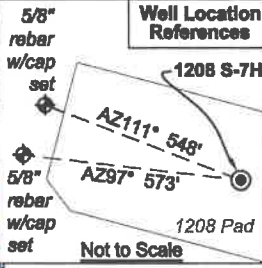
Legend

- ⊙ 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.)



Notes: Well No. 1208 S-7H
West Virginia Coordinate System of 1927, South Zone based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'10.74" Latitude: 39°06'52.61"
Longitude: 80°25'24.49" Longitude: 80°24'38.63"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,921.945m N: 4,329,671.598m
E: 549,831.240m E: 551,007.783m
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

Notes:
Well No. 1208 S-7H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,875.58' E: 1,803,904.66'
Landing Point Coordinates
N: 14,218,403.49' E: 1,802,592.45'
Bottom Hole Coordinates
N: 14,204,930.90' E: 1,807,764.70'



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 S-7H As-Drilled Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

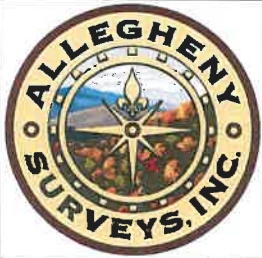
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: April 29 20 20
OPERATOR'S WELL NO. 1208 S-7H
API WELL NO
47 - 033 - 05960
STATE COUNTY PERMIT

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

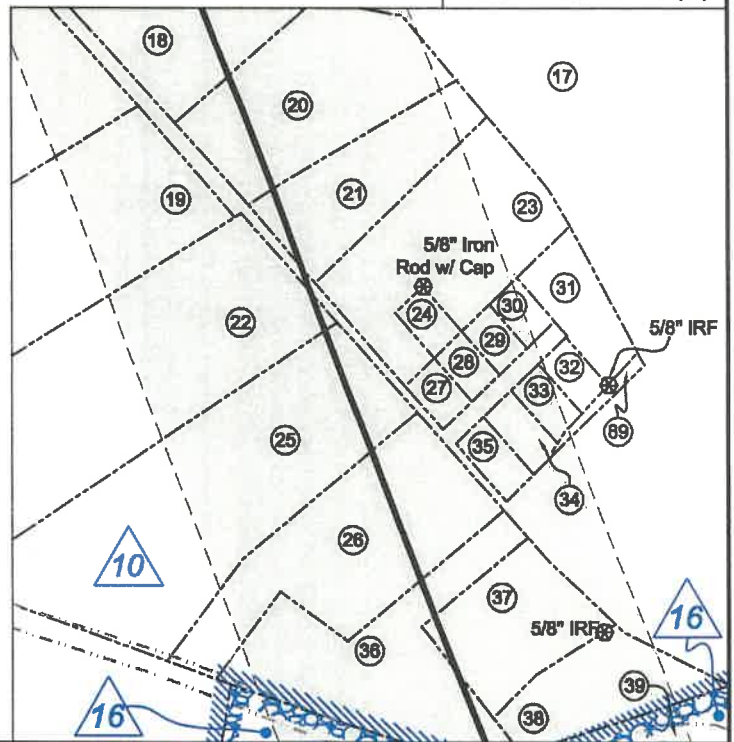
LOCATION: ELEVATION: 1,147' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Hackers Creek
SURFACE OWNER: Linda & William W. Brodwater III
ROYALTY OWNER: Leeman B. Maxwell Heirs, et al LEASE NO: ACREAGE: 247.84
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) LP & BH MOD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,770' MD 6,986' 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



ID	Lease
1	Jerome B. Gusman
2	Leeman B. Maxwell Heirs
3	A.J. Smith, et ux
4	W.L. & Flora Hughes
5	Hannah H. Smith
6	Walter Neely, et al
7	Page Harmer Thomas, et al
8	Howard Neely
9	W.A. Jackson
10	Isaac Jackson
11	Pearl Reel
12	William C. White
13	J.W. Jackson
14	C.H. Stainaker, et ux
15	Garnett M. Corley
16	William White, et al
18	I.L. Moss

Detail 1 - Scale: 1" = 500' (4x)



Harrison County				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	425 / 31	Linda & William W. Brodwater III	1410 / 1045	247.84
2	425 / 1	Lisa M. Nutter	1577 / 738	87.78
3	444 / 14	Robert J. Brightbill	1560 / 293	55.82
4	445 / 10	Lisa M. Nutter	W687 / 445	68.87
5	445 / 9	Lisa M. Nutter	W887 / 445	105.50
6	445 / 18	George W. & Sandra Garton	1425 / 838	30.52
7	445 / 20	Edwin & Gertrude Bush Trustees	1425 / 846	91.70
8	445 / 21	Robert Allman, et al	W177 / 231	41.11
9	445 / 32	Patricia T. Garton	1425 / 854	43.15
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13	465 / 4	John G. & Rebecca M. Moore	1428 / 929	10.00
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92	465 / 2	William C. White	1376 / 325	6.12
93	465 / 2.1	William C. White	--- / ---	3.73
94	465 / 1.3	Stutler Holdings	1524 / 688	2.71

FILE NO: 195-36-G-18

DRAWING NO: 1208 S-7H As-Drilled Well Plat

SCALE: 1" = 2000'

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 29 20 20

OPERATOR'S WELL NO. 1208 S-7H

API WELL NO

47 - 033 - 05960
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 / Hackers Creek

SURFACE OWNER: Linda & William W. Brodwater III

ROYALTY OWNER: Leeman B. Maxwell Heirs, et al

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

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,770' MD 6,986' TVD

Top - West Milford
QUADRANGLE: Btm - Weston
COUNTY: Harrison / Lewis

ACREAGE: 200

LEASE NO: _____ ACREAGE: 247.84

WELL OPERATOR: HG Energy II Appalachia, LLC

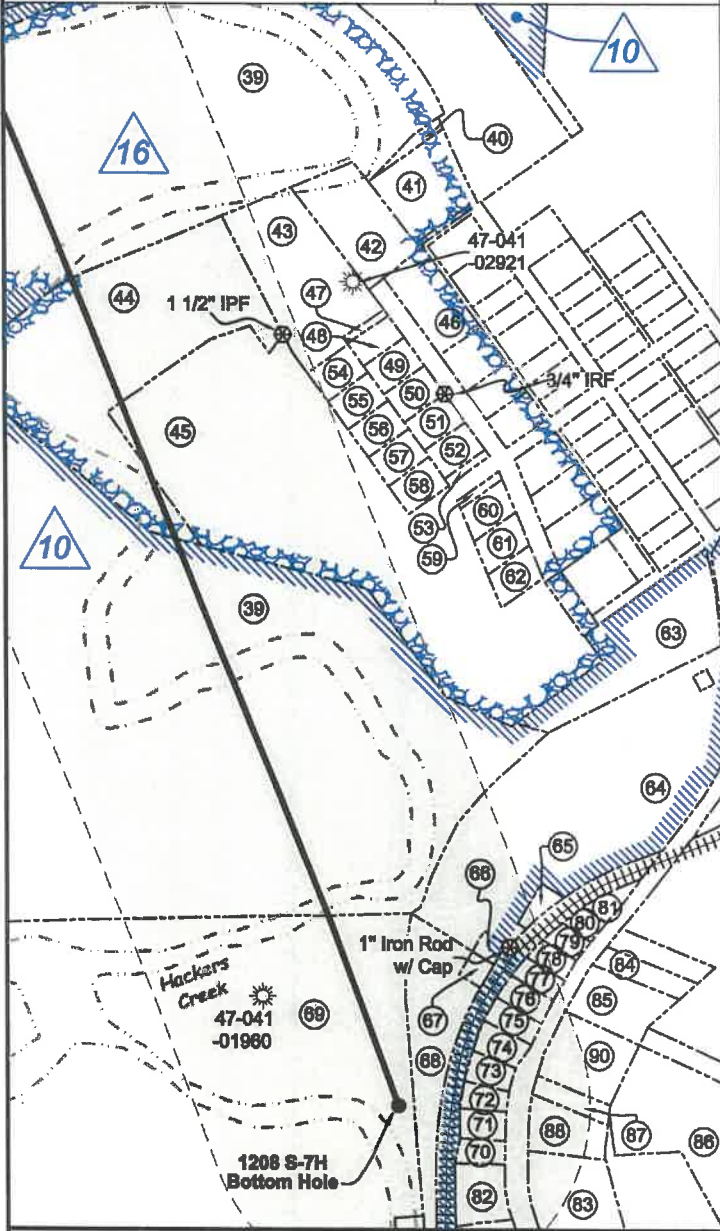
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101



Detail 2 - Scale: 1" = 500' (4x)



No.	TM / Par	Owner	Bk / Pg	Ac.
16	8B / 6	Roy G. Juckett	638 / 520	34.00
17	8B / 7	William E. Watson	547 / 164	71.51
18	8B / 7.3	Risha Family LP	712 / 700	3.21
19	8B / 7.2	USARC Military Reservation	509 / 790	9.83
20	8B / 7.16	Big Brother & Holding Co.	682 / 778	4.77
21	8B / 7.15	Big Brother & Holding Co.	682 / 778	2.84
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29	8C / 98	Sandra Kay Matthews	620 / 376	0.34
30	8C / 99	Mark F. Smith	593 / 8	0.34
31	8C / 100	Phillip C. & Norma K. Alfred	805 / 254	1.28
32	8C / 96	Garland E. & Jean C. Chapman	666 / 441	0.39
33	8C / 93	Richard J. Davis	W33 / 424	0.40
34	8C / 92	Rebecca T. Cronin	625 / 583	0.447
35	8C / 91	Kenneth E. & Alice F. Smith	683 / 572	0.46
36	8C / 31.3	Victoria S. Martin	349 / 591	5.00
37	8C / 31.2	Victoria S. Martin	377 / 285	2.87
38	8C / 31	Elizabeth D. & Carl A. Meahl Jr.	536 / 90	1.93
39	8C / 33.2	C.D. Cole	502 / 70	150.51
40	5 / 62	William C. White	W23 / 102	0.097
41	5 / 63	William C. White	W23 / 102	0.86
42	8C / 33.5	Michael B. & Judy M. Grogg	511 / 612	1.14
43	8C / 33.10	Linda J. Cooke	FID	1.79
44	8C / 33	Lantetta S. & Glenna K. Myers	598 / 332	6.73
45	8C / 33.1	Jane Lew Associates	409 / 488	10.35
46	8C / 33.7	David D. & Kimberly M. Marple	514 / 156	0.74
47	8C / 33.4	Lowell Weaver	580 / 680	0.059
48	8C / 33.3	Sharon K. Weaver	507 / 475	0.214
49	5 / 50	David & Sharon Snyder	370 / 149	0.27
50	5 / 51	Bethel M. Cruze	700 / 794	0.27
51	5 / 52	Sharon Stalknaker	622 / 270	0.27
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56	5 / 60	Dale & Katherin Holden	680 / 239	0.26
57	5 / 61	Michael L. & Betty A. Ford	379 / 388	0.27
58	5 / 54	Joetta J. & George Anderson	594 / 552	0.27
59	5 / 64	Betty Hitt	582 / 261	0.07
60	5 / 55	Larry F. Bean II	634 / 569	0.276
61	5 / 56	William F. & Linda K. Murphy	731 / 666	0.278
62	5 / 57	Marjorie & Linda C. Hyatt	510 / 581	0.275
63	8C / 33.12	Lisa & David Wagner	604 / 150	2.34
64	8C / 47	C.J. Martin II	666 / 168	5.67
65	1 / 42.1	Derek Long	642 / 334	0.19
66	8C / 47.1	C.J. Martin II	666 / 168	0.09
67	8C / 47.2	C.J. Martin II	666 / 168	0.11
68	8C / 47.3	C.J. Martin II	666 / 168	1.40
69	8C / 34	Charles D. Cole II	437 / 680	136.87
70	1 / 34	Melissa S. Mann	724 / 943	0.17
71	1 / 35	Big Brother & Holding Co. LLC	682 / 411	0.21
72	1 / 36	Big Brother & Holding Co. LLC	682 / 411	0.16
73	1 / 37.1	Zachary Lamb	674 / 66	0.19
74	1 / 37	Jason D. & Sarah H. Bryant	651 / 730	0.45
75	1 / 38	Amanda Jo Frazier	651 / 69	0.16
76	1 / 39	Cinda Roby, et al	W46 / 139	0.21
77	1 / 40	Dale Keith McCoy	657 / 360	0.17
78	1 / 41	Robert M. Brown	682 / 220	0.15
79	1 / 42	Jay H. & Linda McCarty	450 / 338	0.14
80	1 / 43	Douglas E. & Ruth M. Ferrell	680 / 150	0.12
81	1 / 44	Douglas E. & Ruth M. Ferrell	680 / 150	0.19
82	1 / 33	Kathryn L. Fridley	W46 / 494	0.38
83	1 / 49	Robert T. & Cynthia M. Swiger	323 / 163	1.13
84	1 / 46.2	David L. & Celia K. Radcliff	578 / 818	0.32
85	1 / 46	Garrison & Heather Grogg	706 / 58	0.75
86	1 / 68	Board of Education	216 / 215	2.80
87	1 / 48	Board of Education	151 / 129	0.28
88	1 / 84	Christel L. Beam	738 / 201	0.568
89	8C / 94	William E. Watson	566 / 489	0.197
90	1 / 47	Board of Education	- / -	1.00

FILE NO: 195-36-G-18
DRAWING NO: 1208 S-7H As-Drilled Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV



DATE: April 29 2020
OPERATOR'S WELL NO. 1208 S-7H
API WELL NO
47 - 033 - 05960
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 / Hackers Creek
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) LP & BH MOD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,770' MD 6,986' 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

HG Energy II Appalachia, LLC
As-Drilled Well No. 1208 S-7H

Page 1 of 3



9,978' to Bottom Hole
1,929' to Top Hole
Top Latitude 39 - 10 - 00
Btm Latitude 39 - 07 - 30

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.

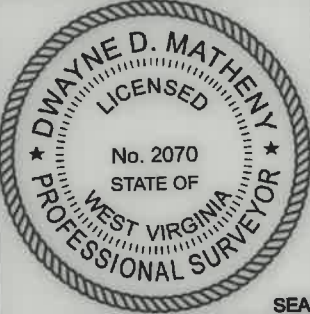
Dwayne D. Matheny, P.S. 2070

Top Longitude 80 - 25 - 00
Btm Longitude 80 - 22 - 30
4,983' to Top Hole
3,782' to Bottom Hole

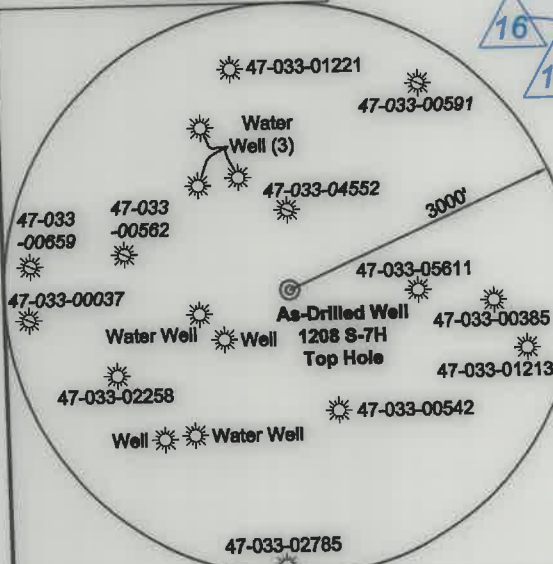
Tag	Bearing	Dist.
L1	S 44°20' E	1,485.1'
L2	S 31°30' E	1,450.2'
L3	S 85°21' W	1,056.2'
L4	N 65°40' W	867.8'

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.)



SEAL



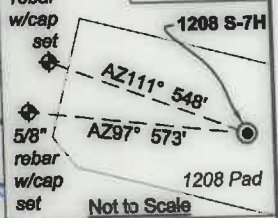
Note: 5 water wells were found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

GRID NORTH

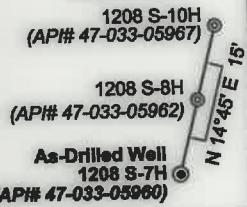
Notes: Well No. 1208 S-7H
West Virginia Coordinate System of 1927, South Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'10.74" Latitude: 39°06'52.61"
Longitude: 80°25'24.49" Longitude: 80°24'36.63"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,921.945m N: 4,329,671.598m
E: 549,831.240m E: 551,007.783m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

Notes:
Well No. 1208 S-7H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,875.58' E: 1,803,904.66'
Landing Point Coordinates
N: 14,218,403.49' E: 1,802,592.45'
Bottom Hole Coordinates
N: 14,204,930.90' E: 1,807,764.70'

Well Location References



Wellhead Layout (Not to Scale)



FILE NO: 195-36-G-18
DRAWING NO: 1208 S-7H As-Drilled Well Plat
SCALE: 1" = 2000'
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 29 2020
OPERATOR'S WELL NO. 1208 S-7H
API WELL NO
47 - 033 - 05960
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 / Hackers Creek
SURFACE OWNER: Linda & William W. Brodwater III
ROYALTY OWNER: Leeman B. Maxwell Helrs, et al

QUADRANGLE: Top - West Millford
Btm - Weston
COUNTY: Harrison / Lewis
ACREAGE: 260

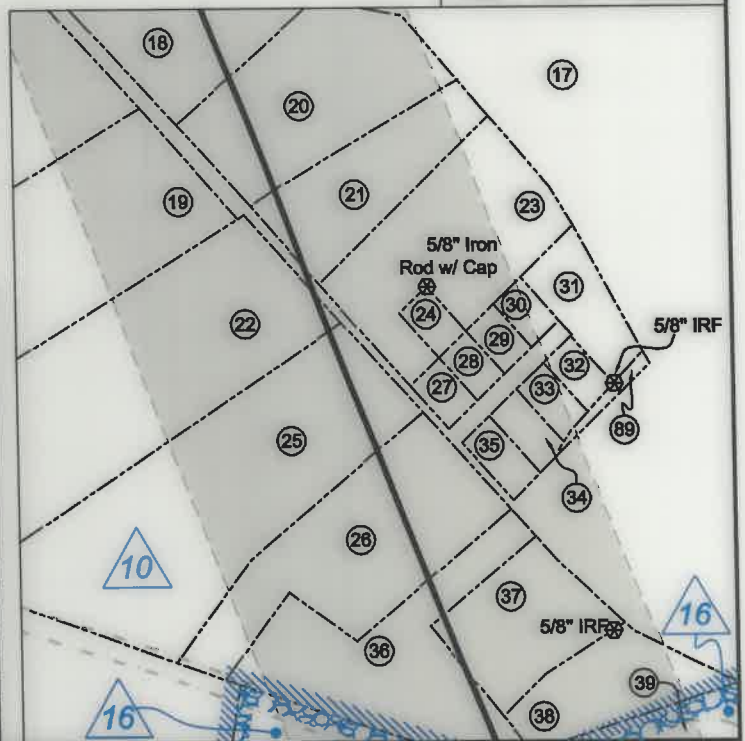
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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,770' MD 6,986' TVD

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



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18	I.L. Moss

Detail 1 - Scale: 1" = 500' (4x)



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

DATE: April 29 20 20
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47 - 033 - 05960
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WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
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LOCATION: ELEVATION: 1,147' WATERSHED: Middle West Fork Creek

QUADRANGLE: Top - West Millford
Btm - Weston

DISTRICT: Grant / Hackers Creek

COUNTY: Harrison / Lewis

SURFACE OWNER: Linda & William W. Brodwater III

ACREAGE: 200

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
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PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,770' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road

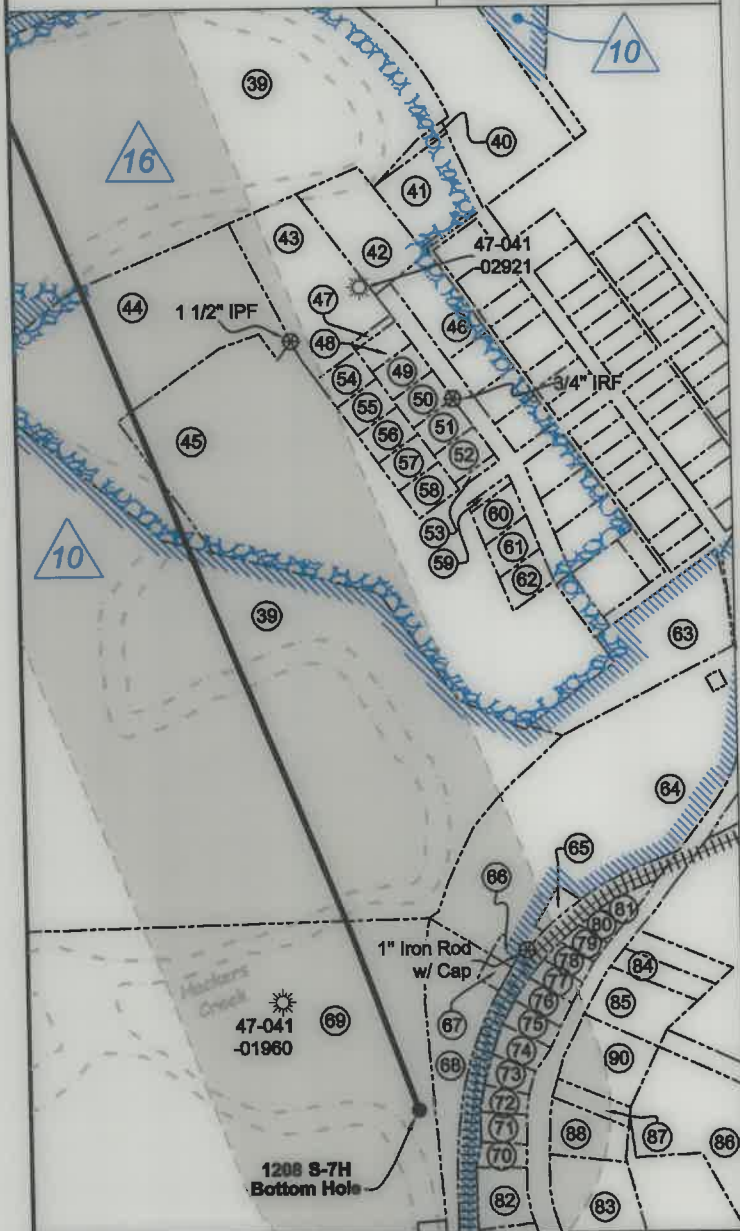
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Detail 2 - Scale: 1" = 500' (4x)



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39	8C / 33.2	C.D. Cole	502 / 70	150.51
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41	5 / 63	William C. White	W23 / 102	0.86
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62	5 / 57	Marjorie & Linda C. Hyatt	510 / 581	0.275
63	8C / 33.12	Lisa & David Wagner	604 / 150	2.34
64	8C / 47	C.J. Martin II	666 / 168	5.67
65	1 / 42.1	Derek Long	642 / 334	0.19
66	8C / 47.1	C.J. Martin II	666 / 168	0.09
67	8C / 47.2	C.J. Martin II	666 / 168	0.11
68	8C / 47.3	C.J. Martin II	666 / 168	1.40
69	8C / 34	Charles D. Cole II	437 / 680	136.87
70	1 / 34	Melissa S. Mann	724 / 943	0.17
71	1 / 35	Big Brother & Holding Co. LLC	682 / 411	0.21
72	1 / 36	Big Brother & Holding Co. LLC	682 / 411	0.16
73	1 / 37.1	Zachary Lamb	674 / 66	0.19
74	1 / 37	Jason D. & Sarah H. Bryant	651 / 730	0.45
75	1 / 38	Amanda Jo Frazier	651 / 69	0.16
76	1 / 39	Cinda Roby, et al	W46 / 139	0.21
77	1 / 40	Dale Keith McCoy	657 / 360	0.17
78	1 / 41	Robert M. Brown	682 / 220	0.15
79	1 / 42	Jay H. & Linda McCarty	450 / 338	0.14
80	1 / 43	Douglas E. & Ruth M. Ferrell	680 / 150	0.12
81	1 / 44	Douglas E. & Ruth M. Ferrell	680 / 150	0.19
82	1 / 33	Kathryn L. Fridley	W46 / 494	0.38
83	1 / 49	Robert T. & Cynthia M. Swiger	323 / 163	1.13
84	1 / 46.2	David L. & Cella K. Radcliff	576 / 818	0.32
85	1 / 46	Garrison & Heather Grogg	706 / 58	0.75
86	1 / 68	Board of Education	216 / 215	2.80
87	1 / 48	Board of Education	151 / 129	0.28
88	1 / 84	Christel L Beam	738 / 201	0.568
89	8C / 94	William E. Watson	566 / 489	0.197
90	1 / 47	Board of Education	- / -	1.00

FILE NO: 195-36-G-18
DRAWING NO: 1208 S-7H As-Drilled Well Plat
SCALE: 1" = 2000'
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 29 2020
OPERATOR'S WELL NO. 1208 S-7H
API WELL NO
47 - 033 - 05960
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 / Hackers Creek

QUADRANGLE: Top - West Milford
Btm - Weston
COUNTY: Harrison / Lewis
ACREAGE: 247.84

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) LP & BH MOD 6,986' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 21,770' MD

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