

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

FEB 21 2024

WV Department of  
Environmental Protection

API 47-041-05707 County Lewis District Freemans Creek  
Quad Weston Pad Name Flesher 1212 Field/Pool Name Kennedy  
Farm name Flesher Well Number 1212 N4H  
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 14206116.16 Easting 1785747.12  
Landing Point of Curve Northing 14207210.50 Easting 1787380.98  
Bottom Hole Northing 14226428.39 Easting 1780784.32

Elevation (ft) 1232 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 11/20/2020 Date drilling commenced 2/28/2021 Date drilling ceased 9/6/2021  
Date completion activities began 12/14/2021 Date completion activities ceased 5/28/2022  
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 283 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 303, 473, 815, 910, 1065 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:

**APPROVED**

*James Reynolds* 3-14-24

03/22/2024

API 47-041 - 05707 Farm name Flesher Well number 1212 N4H

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"	1084	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	2084	New	68 lbs/ft		Yes
Intermediate 2	12.25"	9.625"	2918	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5	5.5	27919	New	23 lbs/ft P-11		No
Tubing							
Packer type and depth set							

Comment Details Throughout pumping cement we had full returns and recovered calculated hole mud volume, dropped plug and started displacement, still had full returns, spacer at surface as per calc.

As displacement continued returns tapered off but never completely stopped, calculated returns in a gauge hole would have been 200 bbls MPE spacer + 400 bbls cement, we had 100 bbls spacer to surface at end of job. 100 bbl CEMFIT heal in job ahead of final tail volume.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Not Cemented						
Surface	Class A	2044	15.6	1.18	2412	surface	8
Coal							
Intermediate 1	Class A	1620/570	16.0/16.4	1.16/1.10	1879/627	surface	24
Intermediate 2	Class A	1037	15.6	1.19	1234	surface	8
Intermediate 3							
Production	Class A	952/504/379/4296	13.5/13.5/13.5/14.8	1.82/1.67/1.48/1.34	1732/842/561/5756	3400'	8
Tubing							

Drillers TD (ft) 27940 Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

RECEIVED  
Office Of Oil and Gas

FEB 21 2024

Kick off depth (ft) 6135

WV Department of Environmental Protection

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 \_\_\_\_\_

03/22/2024

API 47-041 - 05707 Farm name Flesher Well number 1212 N4H

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					

RECEIVED  
Office Of Oil and Gas  
FEB 21 2024  
Wy Department of Environmental Protection

Please insert additional pages as applicable.

03/22/2024

HG Energy II Appalachia, LLC

Fletcher 1222 N-4H

Perforation Record

RECEIVED  
Office Of Oil and Gas

FEB 21 2024

WV Department of  
Environmental Protection

Stage #	Date	Perf from Depth	Perf to Depth	Number of Perfs	Formation
Sleeve/1	4/7/2022	27869	27843	2	Marcellus
2	4/8/2022	27809	27641	32	Marcellus
3	4/8/2022	27613	27445	32	Marcellus
4	4/9/2022	27417	27249	32	Marcellus
5	4/9/2022	27221	27053	32	Marcellus
6	4/9/2022	27025	26857	32	Marcellus
7	4/9/2022	26829	26661	32	Marcellus
8	4/10/2022	26633	26465	32	Marcellus
9	4/10/2022	26437	26269	32	Marcellus
10	4/10/2022	26241	26073	32	Marcellus
11	4/10/2022	26045	25877	32	Marcellus
12	4/11/2022	25849	25681	32	Marcellus
13	4/11/2022	25653	25485	32	Marcellus
14	4/11/2022	25457	25289	32	Marcellus
15	4/11/2022	25261	25093	32	Marcellus
16	4/12/2022	25065	24897	32	Marcellus
17	4/12/2022	24869	24701	32	Marcellus
18	4/12/2022	24673	24505	32	Marcellus
19	4/12/2022	24477	24309	32	Marcellus
20	4/13/2022	24281	24113	32	Marcellus
21	4/13/2022	24085	23917	32	Marcellus
22	4/14/2022	23889	23721	32	Marcellus
23	4/14/2022	23693	23525	32	Marcellus
24	4/14/2022	23497	23329	32	Marcellus
25	4/14/2022	23301	23133	32	Marcellus
26	4/14/2022	23105	22937	32	Marcellus
27	4/15/2022	22909	22741	32	Marcellus
28	4/15/2022	22713	22545	32	Marcellus
29	4/15/2022	22517	22349	32	Marcellus
30	4/15/2022	22321	22153	32	Marcellus
31	4/16/2022	22125	21957	32	Marcellus
32	4/16/2022	21929	21761	32	Marcellus
33	4/16/2022	21733	21565	32	Marcellus
34	4/16/2022	21537	21369	32	Marcellus
35	4/16/2022	21341	21173	32	Marcellus
36	4/17/2022	21145	20977	32	Marcellus
37	4/17/2022	20949	20781	32	Marcellus
38	4/18/2022	20753	20585	32	Marcellus
39	4/18/2022	20557	20389	32	Marcellus
40	4/18/2022	20361	20193	32	Marcellus
41	4/18/2022	20165	19997	32	Marcellus
42	4/19/2022	19969	19801	32	Marcellus
43	4/19/2022	19773	19605	32	Marcellus
44	4/19/2022	19577	19409	32	Marcellus
45	4/19/2022	19381	19213	32	Marcellus
46	4/20/2022	19185	19017	32	Marcellus
47	4/20/2022	18989	18821	32	Marcellus
48	4/20/2022	18793	18625	32	Marcellus
49	4/20/2022	18597	18429	32	Marcellus
50	4/20/2022	18401	18233	32	Marcellus
51	4/21/2022	18205	18037	32	Marcellus
52	4/21/2022	18009	17841	32	Marcellus
53	4/21/2022	17813	17645	32	Marcellus
54	4/21/2022	17617	17449	32	Marcellus
55	4/21/2022	17421	17253	32	Marcellus
56	4/22/2022	17225	17057	32	Marcellus
57	4/22/2022	17029	16861	32	Marcellus

03/22/2024

58	4/22/2022	16833	16665	32	Marcellus
59	4/22/2022	16637	16469	32	Marcellus
60	4/23/2022	16441	16273	32	Marcellus
61	4/23/2022	16245	16077	32	Marcellus
62	4/23/2022	16049	15881	32	Marcellus
63	4/23/2022	15853	15685	32	Marcellus
64	4/23/2022	15657	15489	32	Marcellus
65	4/24/2022	15461	15293	32	Marcellus
66	4/24/2022	15265	15097	32	Marcellus
67	4/24/2022	15069	14901	32	Marcellus
68	4/24/2022	14873	14705	32	Marcellus
69	4/25/2022	14677	14509	32	Marcellus
70	4/25/2022	14481	14313	32	Marcellus
71	4/25/2022	14285	14117	32	Marcellus
72	4/26/2022	14089	13921	32	Marcellus
73	4/26/2022	13893	13725	32	Marcellus
74	4/26/2022	13697	13529	32	Marcellus
75	4/26/2022	13501	13333	32	Marcellus
76	4/27/2022	13305	13137	32	Marcellus
77	4/28/2022	13109	12941	32	Marcellus
78	4/27/2022	12913	12745	32	Marcellus
79	4/27/2022	12717	12549	32	Marcellus
80	4/28/2022	12521	12353	32	Marcellus
81	4/28/2022	12325	12157	32	Marcellus
82	4/28/2022	12129	11961	32	Marcellus
83	4/28/2022	11933	11765	32	Marcellus
84	4/29/2022	11737	11569	32	Marcellus
85	4/29/2022	11541	11373	32	Marcellus
86	4/29/2022	11345	11177	32	Marcellus
87	4/29/2022	11149	10981	32	Marcellus
88	4/29/2022	10953	10785	32	Marcellus
89	4/30/2022	10757	10589	32	Marcellus
90	4/30/2022	10561	10393	32	Marcellus
91	4/30/2022	10365	10197	32	Marcellus
92	4/30/2022	10169	10001	32	Marcellus
93	5/1/2022	9973	9805	32	Marcellus
94	5/1/2022	9777	9609	32	Marcellus
95	5/1/2022	9581	9413	32	Marcellus
96	5/1/2022	9385	9217	32	Marcellus
97	5/2/2022	9189	9021	32	Marcellus
98	5/2/2022	8993	8825	32	Marcellus
99	5/2/2022	8797	8629	32	Marcellus
100	5/2/2022	8601	8433	32	Marcellus
101	5/2/2022	8405	8237	32	Marcellus
102	5/3/2022	8209	8041	32	Marcellus
103	5/3/2022	8014	7846	32	Marcellus
104	5/3/2022	7820	7676	28	Marcellus

RECEIVED  
Office Of Oil and Gas  
FEB 21 2024  
WV Department of  
Environmental Protection

03/22/2024

RECEIVED  
Office Of Oil and Gas

FEB 21 2024

WV Department of  
Environmental Protection

03/22/2024

RECEIVED  
Office Of Oil and Gas

FEB 21 2024

WV Department of  
Environmental Protection

03/22/2024

FEB 21 2024

WV Department of  
Environmental Protection

**HG Energy II Appalachia, LLC**  
**Fletcher 1212 N-4H**  
**Stimulation Record**

Stage #	Date	Avg Pump Rate (BPM)	Avg Treatment Press (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve/1	4/7/2022	74.0	9863	20	3540	270000	9,148
2	4/8/2022	73.0	9,935	7,175	5,057	504600	13,405
3	4/8/2022	82.0	10,166	N/A	5,144	444560	12,264
4	4/9/2022	81.0	10,113	6,689	5,226	440000	12,118
5	4/9/2022	82.0	10,094	N/A	5,693	699000	15,334
6	4/9/2022	83.0	9,929	6,800	5,340	704500	12,628
7	4/9/2022	85.0	9,964	6,411	5,488	705000	12,326
8	4/10/2022	88.0	10,066	N/A	5,440	704600	12,300
9	4/10/2022	86.0	10,178	N/A	5,516	639936	10,390
10	4/10/2022	86.0	9,850	6,237	5,829	705500	10,377
11	4/10/2022	81.0	9,797	3,627	4,642	561000	10,736
12	4/11/2022	82.0	9,992	6,238	5,337	704800	10,180
13	4/11/2022	82.0	9,841	5,776	6,248	704500	9,886
14	4/11/2022	84.0	9,655	5,771	4,743	681000	9,764
15	4/11/2022	88.0	9,728	5,633	5,825	667000	9,652
16	4/12/2022	82.0	10,021	6,057	5,691	609000	10,530
17	4/12/2022	84.0	9,734	5,828	6,030	704300	9,993
18	4/12/2022	88.0	10,185	5,734	4,535	705500	9,981
19	4/12/2022	90.0	10,307	3,693	4,718	569000	11,065
20	4/13/2022	88.0	10,377	6,950	4,925	391400	9,245
21	4/13/2022	87.0	10,199	6,021	5,400	705500	10,051
22	4/14/2022	88.0	10,370	6,062	4,563	496000	11,540
23	4/14/2022	90.3	10,473	5,978	5,148	676780	9,768
24	4/14/2022	89.3	10,425	5,737	4,549	579720	9,040
25	4/14/2022	88.0	10,319	6,448	5,336	352000	7,615
26	4/14/2022	89.0	10,071	5,504	4,590	608000	11,308
27	4/15/2022	90.0	10,213	5,480	4,621	705140	11,682
28	4/15/2022	88.9	10,357	5,659	4,565	562060	10,443
29	4/15/2022	96.0	10,268	5,678	5,131	705860	12,158
30	4/15/2022	95.0	10,158	5,528	5,002	680000	11,236
31	4/16/2022	90.0	10,328	5,456	4,446	705740	11,103
32	4/16/2022	92.0	10,281	5,631	4,950	705480	9,955
33	4/16/2022	96.0	10,058	5,397	4,927	705060	9,688
34	4/16/2022	98.0	10,072	5,392	4,472	591000	9,094
35	4/16/2022	93.1	10,226	6,805	5,119	690000	10,989
36	4/17/2022	78.0	9,939	5,376	5,540	720320	9,832
37	4/17/2022	93.0	10,244	6,323	4,641	720080	11,415
38	4/18/2022	98.4	10,505	5,661	4,630	651280	9,486
39	4/18/2022	95.1	10,338	6,387	4,599	644100	12,803
40	4/18/2022	99.0	10,197	5,637	5,309	682000	11,467
41	4/18/2022	96.0	10,306	5,741	4,861	691000	11,450
42	4/19/2022	99.2	10,195	5,490	5,372	719900	9,867
43	4/19/2022	99.1	10,079	4,379	5,350	720720	9,866
44	4/19/2022	96.0	9,664	5,829	4,746	720860	9,875
45	4/19/2022	104.0	10,162	6,184	5,398	719500	9,943
46	4/20/2022	92.6	10,126	6,006	4,631	720000	11,189
47	4/20/2022	103.2	10,317	5,917	5,092	720320	9,858
48	4/20/2022	102.0	10,192	6,051	4,941	705500	9,932
49	4/20/2022	105.0	10,182	6,346	5,219	719952	9,999
50	4/20/2022	105.0	10,362	6,515	5,028	654983	9,403
51	4/21/2022	98.1	9,956	6,140	5,002	719560	10,312
52	4/21/2022	103.8	10,263	6,015	5,392	720046	9,721
53	4/21/2022	105.0	10,277	5,713	5,111	720080	9,872
54	4/21/2022	107.0	10,094	5,479	4,837	719850	9,618
55	4/21/2022	101.8	9,956	6,084	4,902	720820	9,764
56	4/22/2022	103.9	10,466	5,690	5,050	720800	9,958
57	4/22/2022	101.0	10,347	6,167	5,218	720640	9,824

03/22/2024



58	4/22/2022	104.0	10,159	5,961	5,210	719870	9,741
59	4/22/2022	107.0	10,287	6,455	4,950	719900	9,713
60	4/23/2022	102.5	10,244	6,411	4,784	720880	11,374
61	4/23/2022	104.7	10,187	6,305	5,123	720780	9,857
62	4/23/2022	107.0	10,072	6,385	5,033	720040	9,705
63	4/23/2022	108.0	9,992	6,511	5,372	720160	9,828
64	4/23/2022	101.4	9,743	6,545	5,446	719500	9,735
65	4/24/2022	103.6	9,884	6,292	4,904	720640	9,764
66	4/24/2022	103.0	10,112	6,585	5,157	720000	9,928
67	4/24/2022	104.0	9,831	6,614	5,129	719500	10,234
68	4/24/2022	102.0	9,998	6,491	5,335	719600	10,759
69	4/25/2022	106.5	10,157	6,311	4,864	720000	9,879
70	4/25/2022	105.0	9,900	6,943	5,686	660100	9,440
71	4/25/2022	87.0	10,030	6,210	5,160	583400	10,369
72	4/26/2022	102.8	9,667	6,120	4,755	719980	9,639
73	4/26/2022	102.1	10,064	6,986	4,871	720000	9,794
74	4/26/2022	105.0	9,976	6,739	5,583	720000	9,819
75	4/26/2022	103.0	10,142	6,152	5,637	696500	9,710
76	4/27/2022	78.2	9,220	5,757	4,937	660000	9,577
77	4/28/2022	97.0	9,126	5,822	4,849	558700	8,670
78	4/27/2022	94.0	9,041	6,203	5,690	505600	8,291
79	4/27/2022	99.0	8,948	6,229	5,126	680700	10,632
80	4/28/2022	99.5	8,802	5,697	5,544	719900	9,896
81	4/28/2022	99.0	8,921	5,824	5,033	682000	9,594
82	4/28/2022	98.0	8,238	6,182	5,643	720500	9,692
83	4/28/2022	100.0	8,554	6,416	5,341	719950	9,623
84	4/29/2022	100.1	8,523	6,101	5,276	720000	9,802
85	4/29/2022	99.1	8,307	6,457	5,644	720000	9,729
86	4/29/2022	86.0	7,497	6,218	5,776	719800	11,073
87	4/29/2022	91.0	7,949	6,979	555	708700	9,640
88	4/29/2022	99.0	8407	6050	6261	719900	9604
89	4/30/2022	98.7	8334	6805	5880	720000	9808
90	4/30/2022	98.4	8307	6207	5660	720020	9888
91	4/30/2022	88.0	8041	6800	5191	720000	9765
92	4/30/2022	100.0	8676	7077	6486	720000	9508
93	5/1/2022	98.9	8817	6617	5109	719900	11998
94	5/1/2022	99.5	8196	6365	5394	719900	10006
95	5/1/2022	87.0	7797	6503	5477	708900	10160
96	5/1/2022	99.0	8027	6308	5240	720000	9511
97	5/2/2022	98.5	8151	7055	5352	719930	9958
98	5/2/2022	99.3	8297	6977	5107	665000	10431
99	5/2/2022	96.0	7746	6724	5059	708000	10629
100	5/2/2022	99.0	7691	6921	5478	720000	9555
101	5/2/2022	102.0	7639	6710	5372	720000	10059
102	5/3/2022	100.5	7600	6989	5251	719950	10025
103	5/3/2022	99.0	7813	6444	5148	720000	10877
104	5/3/2022	99.2	7795	6876	5568	725140	10548

RECEIVED  
Office Of Oil and Gas  
FEB 21 2024  
WV Department of  
Environmental Protection

RECEIVED  
Office Of Oil and Gas  
FEB 21 2024  
WV Department of  
Environmental Protection

03/22/2024

API 47- 041 - 05707 Farm name Flesher Well number 1212 N4H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6862-7297</u> TVD	<u>7600-27940</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

RECEIVED  
Office Of Oil and Gas  
  
**FEB 21 2024**  
  
WV Department of  
Environmental Protection

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 2894 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 1730 hrs

OPEN FLOW Gas 20088 mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water 816 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 <sub>2</sub> S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
					See Attached

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling  
Address 2640 Reach road City Williamsport State PA Zip 17701

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 Nextier  
Address 8300 Route 119 North City Black Lick State PA Zip 15716

Please insert additional pages as applicable.

Completed by Diane White Telephone 304-420-1119  
Signature Diane White Title \_\_\_\_\_ Date \_\_\_\_\_

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

03/22/2024

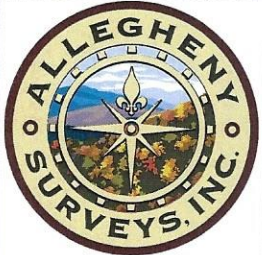
FEB 21 2024

**Lithology Record**  
**Fletcher 1212 N-4H**

Formation	Top MD	Top TVD	Base MD	Base TVD
Gas sand	655	655	856	856
1st salt sand	856	856	1028	1028
Coal	910	910	906	906
2nd salt sand	1030	1030	1123	1123
Deepest coal	1065	1065	1068	1068
3rd salt sand	1213	1213	1245	1245
Upper Maxton	1350	1350	1353	1353
Lower Maxton	1495	1495	1546	1546
Big Lime	1575	1568	1631	1631
Big Injun	1631	1631	1724	1724
Gantz (storage)	1910	1910	1966	1966
50' Sand	2015	2015	2027	2026
30' sand	2125	2124	2142	2141
Gordon Stray	2142	2141	2202	2201
Gordon/Forth Sand	2202	2201	2284	2283
5th Sand	2409	2407	2454	2452
Bayard	2481	2479	2514	2512
Warren	2788	2786	2808	2805
Speechley	3113	3109	3120	3117
Balltown	3309	3303	3395	3385
Bradford	3820	3786	3910	3866
Benson	4515	4397	4528	4408
Rhinestreet	6334	6011	6655	6280
Cashaqua	6655	6280	6917	6493
Middlesex	6917	6493	7033	6577
West River	7033	6577	7199	6685
Burket	7199	6685	7233	6705
Tully	7233	6705	7420	6798
Hamilton	7420	6798	7600	6862
Marcellus	7600	6862	27940	7297

03/22/2024

HG Energy II Appalachia, LLC  
Well No. Flesher 1212 N-4H  
As-Drilled  
Page 1 of 3

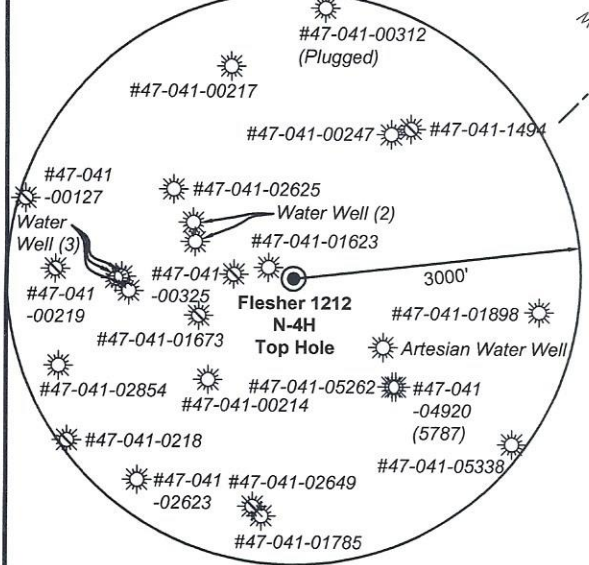


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

*Kevin S. James*  
Kevin S. James, P.S. 2305

**Notes:**  
Well No. Flesher 1212 N-4H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,206,116.16'  
E: 1,785,747.12'  
Landing Point Coordinates  
N: 14,207,210.50'  
E: 1,787,380.98'  
Bottom Hole Coordinates  
N: 14,226,428.39'  
E: 1,780,784.32'

**Notes:** Well No. Flesher 1212 N-4H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates Latitude: 39°07'05.66" Longitude: 80°29'15.98"  
Bottom Hole coordinates Latitude: 39°10'26.77" Longitude: 80°30'17.56"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates N: 4,330,032.866m E: 544,296.810m  
Bottom Hole Coordinates N: 4,336,224.046m E: 542,784.146m  
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 and 1 artesian well was 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: 156-36-12-U-F-19  
DRAWING NO: Flesher 1212 N-4H As-Drilled  
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: January 19 2022  
OPERATOR'S WELL NO. Flesher 1212 N-4H  
API WELL NO  
47 - 041 - 05707  
STATE COUNTY PERMIT

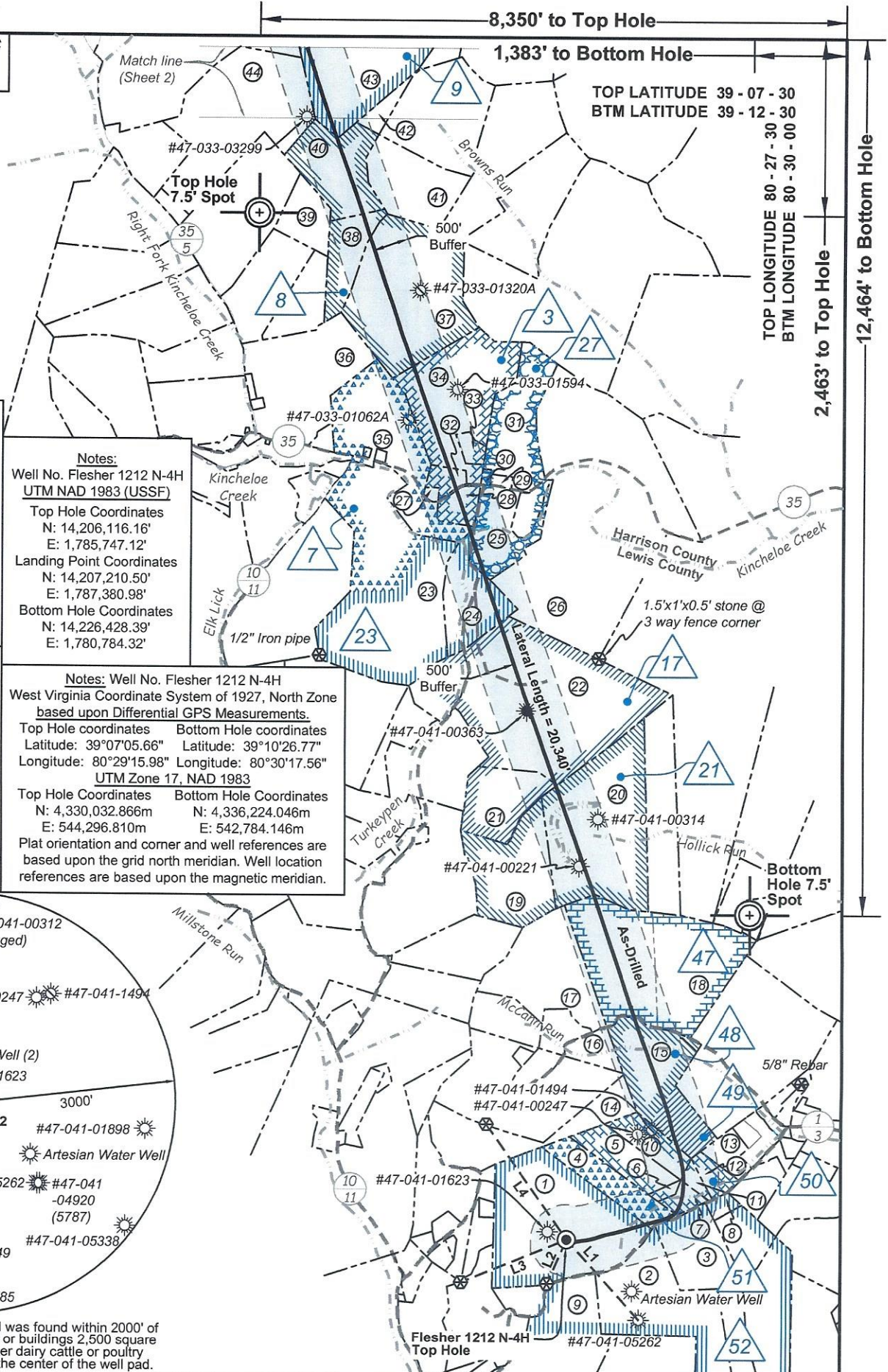
WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek  
SURFACE OWNER: H.G. Energy II Appalachia, LLC  
ROYALTY OWNER: W.D. Hitt, et al, et al LEASE NO: ACREAGE: 210.00

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled Plat  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,297' TVD 27,940' MD

WELL OPERATOR: HG Energy II Appalachia, LLC  
ADDRESS: 5260 Dupont Road Parkersburg, WV 26101

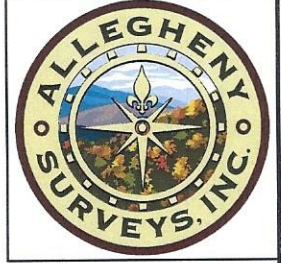
DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road Parkersburg, WV 26101



8,350' to Top Hole  
1,383' to Bottom Hole

TOP LATITUDE 39 - 07 - 30  
BTM LATITUDE 39 - 12 - 30

TOP LONGITUDE 80 - 27 - 30  
BTM LONGITUDE 80 - 30 - 00  
2,463' to Top Hole  
12,464' to Bottom Hole

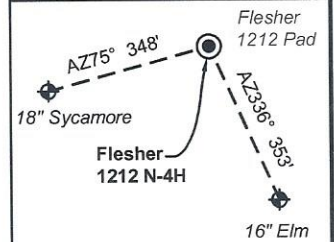


Tag	Bearing	Dist.	Description
L1	N 42°06' W	1,538.6'	#47-041-05262
L2	N 23°28' E	689.6'	1/2" Rebar
L3	N 67°41' E	1,622.2'	1" Iron pipe
L4	S 35°04' E	2,003.6'	5/8" Rebar

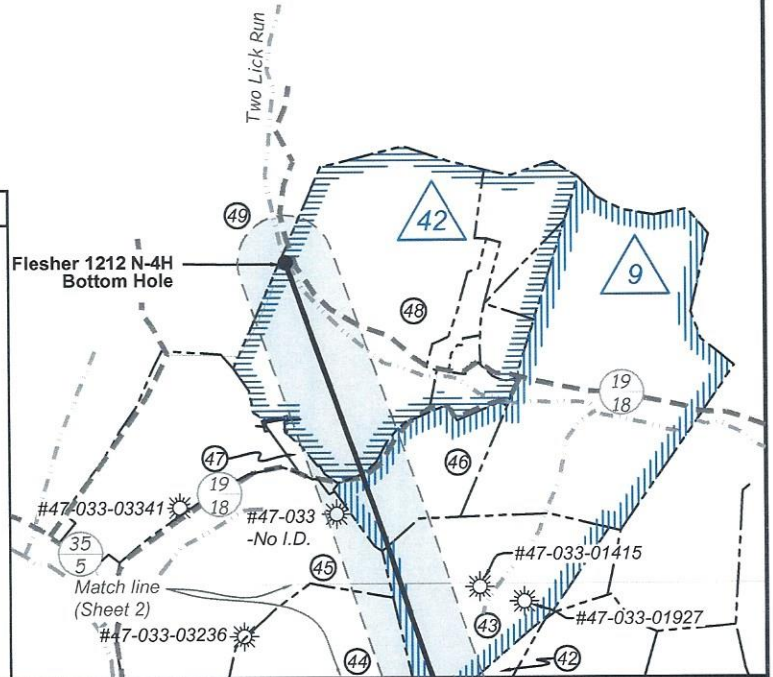
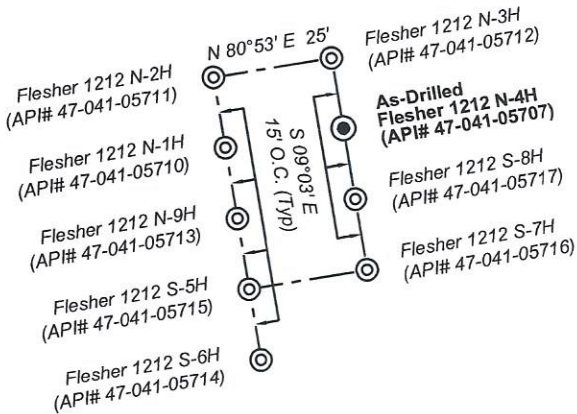
**Legend**

- 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.)

**Well Location References  
Not to Scale**



**Wellhead Layout (NTS)**



FILE NO: 156-36-12-U-F-19  
DRAWING NO: Flesher 1212 N-4H As-Drilled  
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: January 19 2022  
OPERATOR'S WELL NO. Flesher 1212 N-4H  
API WELL NO  
47 - 041 - 05707  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek

Btm: Big Isaac  
QUADRANGLE: Top: Weston  
COUNTY: Lewis  
ACREAGE: 70.00

SURFACE OWNER: H.G. Energy II Appalachia, LLC  
ROYALTY OWNER: W.D. Hitt, et al, et al

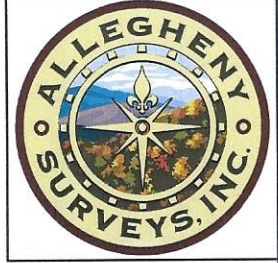
LEASE NO: ACREAGE: 210.00

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled Plat 7,297' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 27,940' 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

03/22/2024



ID	Lease
3	C.C. Ash, et al
7	A.C. Thrash, et al
8	W.L. Oldaker, et al
9	D.M. Cole, et al
12	Mary Post Davis, et al
17	Henry L. Frashuer, et al
21	Henry L. Frashuer, et al
23	A.C. Thrash, et al
27	Mary Robinson, et al
42	Jesse B. Knight, et al
47	W.D. Allman, et al
48	T.S. Allman, et al
49	Floy Ramsburg, et al
50	Susan R. Hall, et al
51	Alda V. Hitt
52	W.D. Hitt, et al

Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 47	HG Energy II Appalachia, LLC	753 / 453	70.00
2	6C / 45	Fred A. Bailey	W25 / 263	48.00
3	6C / 46	Fred A. Bailey	W25 / 263	47.00
4	6C / 48	Marlene Hovis	672 / 411	15.00
5	6C / 49	Marlene Hovis	672 / 411	12.90
6	6C / 52.1	Marlene Hovis	672 / 411	1.37
7	6C / 52	Kenneth B. & Lydia M. Burroughs	420 / 196	3.70
8	6C / 54	Kenneth B. & Lydia M. Burroughs	336 / 47	2.00
9	6C / 43	Gary Allen Sias	646 / 688	54.48
10	6C / 51	Marlene Hovis	672 / 411	12.55
11	6C / 51.1	Kenneth B. & Lydia M. Burroughs	504 / 216	2.35
12	6C / 55	Kenneth B. & Lydia M. Burroughs	336 / 47	5.10
13	6C / 56.1	Kenneth B. & Lydia M. Burroughs	361 / 369	6.12
14	6C / 23	Richard G. & Loretta E. Hayhurst	566 / 357	34.80
15	6C / 62	Lewie Mae Clevenger	W23 / 24	37.83
16	6C / 60	Bryan Todd Beam	617 / 6	6.78
17	6B / 30	Theodore & Mary C. Eldridge	561 / 257	38.16
18	6B / 44	David G. Layton	697 / 278	75.50
19	6B / 34	Robert E. Brincefield, Jr. & Terri Lynne Trust	578 / 630	34.78
20	6B / 43	Brincefield Family Trust	588 / 740	69.36
21	6B / 35	Robert E. Brincefield, Jr. & Terri Lynne Trust	578 / 630	21.75
22	6B / 37	Robert E. Brincefield, Jr. & Terri Lynne Trust	578 / 630	96.14
23	6B / 22	Robert E. Brincefield, Jr. & Terri Lynne Trust	578 / 630	99.46
24	6B / 23	Robert E. Brincefield, Jr. & Terri Lynne Trust	578 / 630	21.75
25	6B / 49	Vernon D. Hughes	680 / 313	19.45

Harrison Co. - Union-Outside Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
26	443 / 28	Mary Lou Curry, et al	1539 / 769	139.97
27	443 / 24	Pleasant Hill M.E. Church	74 / 486	0.75
28	443 / 26	Stephen C. & Marye Stalnaker	1312 / 1253	5.80
29	443 / 12	Joseph G. Davis III	1353 / 935	1.04
30	443 / 12.1	Donna L. Davis	F104 / 1	0.63
31	443 / 12.2	Donna L. Davis	F104 / 1	27.92
32	443 / 26.1	Joseph A. & Ashley E. Sayres	1521 / 638	4.01
33	443 / 11.1	Jason S. & Christine L. Davis	1414 / 141	2.92
34	443 / 11	Donna L. Davis	1375 / 729	51.08
35	443 / 22.1	Debra Swick	W197 / 1310	30.61
36	443 / 8	Amanda Braimantyer	W197 / 1310	63.40
37	423 / 26	Terence L. Washburn	1117 / 549	65.00
38	423 / 25	Terence L. Washburn	1117 / 553	16.00
39	423 / 14	Jeffery & Anessa Griffith	1313 / 1245	13.98
40	423 / 15	Sherry Darlene Baldwin, et al	1531 / 944	28.00
41	423 / 16	Jefferson L. & Linda J. Ashcraft	1322 / 689	26.86
42	423 / 19	Ernest Aubrey Rider	1136 / 136	9.36
43	423 / 18	Ernest Aubrey Rider	1136 / 136	65.00
44	423 / 12	Sherry Darlene Baldwin	1531 / 944	65.39
45	423 / 11	William & Sandra Coffindaffer	1531 / 944	65.39
46	423 / 3	Ernest Aubrey Rider	1136 / 136	32.51
47	423 / 2	Mt. Carmel Baptist Church Trustees	360 / 66	3.22
48	423 / 1	Paul H. Dickerson, Jr., et al	W176 / 905	135.76
49	403 / 24	Ronald E. & Roy D. Randolph II	1586 / 800	97.00

FILE NO: 156-36-12-U-F-19  
DRAWING NO: Flesher 1212 N-4H As-Drilled  
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: January 19 2022  
OPERATOR'S WELL NO. Flesher 1212 N-4H  
API WELL NO  
47 — 041 — 05707  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek  
SURFACE OWNER: H.G. Energy II Appalachia, LLC  
ROYALTY OWNER: W.D. Hitt, et al, et al LEASE NO: ACREAGE: 210.00

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled Plat 7,297' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 27,940' MD

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

03/22/2024

