

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

API 47-041-05706 County Lewis District Freemans Creek  
Quad West Milford Pad Name McDonald 1211 Field/Pool Name Kennedy  
Farm name McDonald Well Number 1211 S9H  
Operator (as registered with the OOG) HG Energy 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 4331773.670 Easting 545448.957  
Landing Point of Curve Northing 4331810.0 Easting 545597.0  
Bottom Hole Northing 4325745.638 Easting 547742.606

Elevation (ft) 1265 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 04/14/2020 Date drilling commenced 11/22/2020 Date drilling ceased 5/30/2021  
Date completion activities began 6/20/2021 Date completion activities ceased 10/30/2021  
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 Not observed 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 425,508,992,1000,1032 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:

**APPROVED**

*[Signature]* 5-9-24 **05/31/2024**

API 47-041 - 05706 Farm name McDonald Well number 1211 S9H

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"	1062	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	2030	New	68 lbs/ft		Yes
Intermediate 2	12.25"	9.625"	2774	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5	5.5	28384	New	23 lbs/ft P-110 HP		Yes
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

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	2281	15.6	1.18	2692	Surface	8
Coal							
Intermediate 1	Class A	1598/492	15.4/15.9	1.24/1.17	1981/576	Surface	24
Intermediate 2	Class A	1057	15.6	1.19	1258	Surface	8
Intermediate 3							
Production	Class A	764/380/4476	13.5/13.5/14.8	1.67/1.48/1.35	1276/562/6043	Surface	8
Tubing							

Drillers TD (ft) <sup>28416</sup> \_\_\_\_\_ Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) <sup>6478</sup> \_\_\_\_\_

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 \_\_\_\_\_

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**HG Energy II Appalachia, LLC**  
**McDonald 1211 S-9H**  
**Perforation Schedule**

Stage #	Perforation Date	Perforation from Depth	Perforations to Depth	Number of Perforations	Formation
Sleeve/1	9/3/2021	28332	28307	2	Marcellus
2	9/3/2021	28273	28105	28	Marcellus
3	9/4/2021	28077	27909	28	Marcellus
4	9/4/2021	27881	27713	28	Marcellus
5	9/4/2021	27685	27517	28	Marcellus
6	9/5/2021	27489	27321	28	Marcellus
7	9/5/2021	27293	27125	28	Marcellus
8	9/5/2021	27097	26929	28	Marcellus
9	9/6/2021	26901	26733	28	Marcellus
10	9/6/2021	26705	26537	28	Marcellus
11	9/6/2021	26509	26341	28	Marcellus
12	9/6/2021	26313	26145	28	Marcellus
13	9/7/2021	26117	25949	28	Marcellus
14A	9/7/2021	25921	25753	28	Marcellus
14B	9/8/2021	25921	25721	56	Marcellus
15	9/8/2021	25694	25538	28	Marcellus
16	9/8/2021	25513	25357	28	Marcellus
17	9/9/2021	25333	25165	28	Marcellus
18	9/9/2021	25137	24969	28	Marcellus
19	9/9/2021	24941	24773	28	Marcellus
20	9/9/2021	24745	24577	28	Marcellus
21	9/10/2021	24549	24381	28	Marcellus
22	9/10/2021	24353	24185	28	Marcellus
23	9/10/2021	24157	23989	28	Marcellus
24	9/11/2021	23961	23793	28	Marcellus
25	9/11/2021	23765	23597	28	Marcellus
26	9/11/2021	23569	23401	28	Marcellus
27	9/12/2021	23373	23205	28	Marcellus
28	9/12/2021	23177	23009	28	Marcellus
29	9/12/2021	22981	22813	28	Marcellus
30	9/12/2021	22785	22617	28	Marcellus
31	9/13/2021	22589	22421	28	Marcellus
32	9/13/2021	22393	22225	28	Marcellus
33	9/13/2021	22197	22029	28	Marcellus
34	9/14/2021	22001	21833	28	Marcellus
35	9/14/2021	21805	21637	28	Marcellus
36	9/14/2021	21609	21441	28	Marcellus
37	9/15/2021	21413	21245	28	Marcellus
38	9/15/2021	21217	21049	28	Marcellus
39	9/15/2021	21021	20853	28	Marcellus
40	9/16/2021	20825	20657	28	Marcellus
41	9/16/2021	20629	20461	28	Marcellus
42	9/16/2021	20433	20265	28	Marcellus
43	9/16/2021	20237	20069	28	Marcellus
44	9/17/2021	20041	19873	28	Marcellus
45	9/18/2021	19845	19677	28	Marcellus
46	9/19/2021	19649	19481	28	Marcellus
47	9/19/2021	19453	19285	32	Marcellus
48	9/20/2021	19257	19089	32	Marcellus
49	9/20/2021	19061	18893	32	Marcellus
50	9/21/2021	18865	18697	32	Marcellus
51	9/21/2021	18669	18501	32	Marcellus
52	9/22/2021	18473	18305	32	Marcellus
53	9/22/2021	18277	18109	32	Marcellus

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54	9/23/2021	18081	17913	32	Marcellus
55	9/24/2021	17885	17717	32	Marcellus
56	9/25/2021	17689	17521	32	Marcellus
57	9/25/2021	17493	17325	32	Marcellus
58	9/26/2021	17297	17129	32	Marcellus
59	9/26/2021	17101	16933	32	Marcellus
60	9/26/2021	16906	16738	32	Marcellus
61	9/27/2021	16712	16544	32	Marcellus
62	9/27/2021	16518	16350	32	Marcellus
63	9/27/2021	16324	16156	32	Marcellus
64	9/28/2021	16130	15962	32	Marcellus
65	9/28/2021	15936	15768	32	Marcellus
66	9/28/2021	15742	15574	32	Marcellus
67	9/28/2021	15548	15380	32	Marcellus
68	9/29/2021	15354	15186	32	Marcellus
69	9/29/2021	15160	14992	32	Marcellus
70	9/29/2021	14966	14798	32	Marcellus
71	9/30/2021	14771	14603	32	Marcellus
72	9/30/2021	14575	14407	32	Marcellus
73	9/30/2021	14379	14211	32	Marcellus
74	9/30/2021	14183	14015	32	Marcellus
75	10/1/2021	13987	13819	32	Marcellus
76	10/1/2021	13791	13623	32	Marcellus
77	10/1/2021	13595	13427	32	Marcellus
78	10/1/2021	13399	13231	32	Marcellus
79	10/2/2021	13203	13035	32	Marcellus
80	10/2/2021	13007	12839	32	Marcellus
81	10/2/2021	12811	12643	32	Marcellus
82	10/2/2021	12615	12447	32	Marcellus
83	10/3/2021	12419	12251	32	Marcellus
84	10/3/2021	12223	12055	32	Marcellus
85	10/3/2021	12027	11859	32	Marcellus
86	10/4/2021	11831	11663	32	Marcellus
87	10/4/2021	11635	11467	32	Marcellus
88	10/4/2021	11439	11271	32	Marcellus
89	10/4/2021	11243	11075	32	Marcellus
90	10/5/2021	11047	10879	32	Marcellus
91	10/5/2021	10851	10683	32	Marcellus
92	10/5/2021	10655	10487	32	Marcellus
93	10/5/2021	10459	10291	32	Marcellus
94	10/6/2021	10263	10095	32	Marcellus
95	10/6/2021	10067	9899	32	Marcellus
96	10/6/2021	9871	9703	32	Marcellus
97	10/6/2021	9675	9507	32	Marcellus
98	10/7/2021	9479	9311	32	Marcellus
99	10/7/2021	9283	9115	32	Marcellus
100	10/7/2021	9087	8919	32	Marcellus
101	10/7/2021	8891	8723	32	Marcellus
102	10/8/2021	8695	8527	32	Marcellus
103	10/8/2021	8499	8331	32	Marcellus
104	10/8/2021	8302	8134	32	Marcellus
105	10/9/2021	8104	7936	32	Marcellus
106	10/9/2021	7906	7738	32	Marcellus
107	10/9/2021	7708	7540	32	Marcellus
108	10/9/2021	7510	7370	32	Marcellus

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**HG Energy II Appalachia, LLC**  
**McDonald 1211 S-9H**  
**Stimulation Information**

Stage #	Date	Ave pump rate (BPM)	Ave Treatment Press (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve/1	9/3/2021	82.2	9317	12500	3841	270180	8,069
2	9/3/2021	82.0	9,691	8,002	4,604	702424	16,082
3	9/4/2021	79.0	9,763	6,625	4,841	464640	12,835
4	9/4/2021	78.6	9,940	8,056	4,833	573400	13,613
5	9/4/2021	80.0	10,050	7,613	4,967	698950	14,819
6	9/5/2021	80.0	9,532	6,874	5,087	700612	12,519
7	9/5/2021	80.0	9,979	6,854	5,420	701900	12,929
8	9/5/2021	80.0	9,979	7,645	5,187	523138	10,594
9	9/6/2021	78.0	9,601	7,252	4,868	705592	11,908
10	9/6/2021	78.3	9,833	6,863	5,744	710400	11,870
11	9/6/2021	81.5	9,550	6,675	5,746	701500	13,519
12	9/6/2021	77.3	10,029	7,330	5,201	707370	12,627
13	9/7/2021	80.0	9,875	6,797	5,825	697600	12,363
14A	9/7/2021	62.0	10,421	6,503	5,470	11400	5,620
14B	9/8/2021	79.0	9,756	6,469	4,991	693100	11,780
15	9/8/2021	81.0	9,732	6,633	5,324	705300	12,076
16	9/8/2021	85.7	10,123	6,311	5,244	695950	11,725
17	9/9/2021	86.8	10,178	6,283	5,099	712600	10,373
18	9/9/2021	80.0	10,097	6,248	5,080	706500	10,035
19	9/9/2021	86.0	10,288	5,948	5,079	636300	9,770
20	9/9/2021	88.7	10,291	6,015	5,498	706660	9,951
21	9/10/2021	91.0	10,320	6,286	5,128	711400	10,084
22	9/10/2021	92.0	10,247	5,800	5,625	705100	10,070
23	9/10/2021	88.3	10,258	5,196	4,639	706820	9,964
24	9/11/2021	91.2	10,091	5,583	5,158	705500	9,916
25	9/11/2021	93.0	10,216	5,420	5,031	706100	10,046
26	9/11/2021	91.0	10,411	5,973	5,039	705000	9,945
27	9/12/2021	88.0	10,243	6,050	5,687	703300	9,943
28	9/12/2021	90.0	10,300	6,195	5,564	701500	10,060
29	9/12/2021	88.0	10,361	6,411	5,323	701200	10,171
30	9/12/2021	85.1	10,228	6,645	4,904	705000	9,987
31	9/13/2021	94.0	10,268	5,031	5,022	705600	10,136
32	9/13/2021	91.2	10,411	5,032	5,555	704700	10,037
33	9/13/2021	91.0	10,196	5,809	4,900	705000	11,443
34	9/14/2021	95.0	10,232	4,025	4,918	705200	10,128
35	9/14/2021	87.0	9,423	6,299	6,091	705500	9,965
36	9/14/2021	91.0	10,186	6,334	7,012	714010	10,065
37	9/15/2021	85.0	9,765	6,601	5,134	722400	12,025
38	9/15/2021	92.0	10,308	6,261	5,574	646900	9,608
39	9/15/2021	87.2	10,250	6,389	5,951	545440	10,728
40	9/16/2021	86.0	9,906	5,548	6,101	714300	9,982
41	9/16/2021	89.0	10,355	6,127	4,401	710500	11,614
42	9/16/2021	90.0	10,189	6,021	5,211	704300	10,020
43	9/16/2021	85.0	10,243	5,719	4,678	593400	9,440
44	9/17/2021	78.8	10,047	5,377	5,498	505010	10,998
45	9/18/2021	89.0	10,079	5,620	5,189	680960	9,713
46	9/19/2021	89.0	9,986	5,197	5,104	704400	9,872
47	9/19/2021	95.3	10,222	5,884	5,450	708531	9,916
48	9/20/2021	92.0	10,142	5,878	5,639	704700	9,989
49	9/20/2021	88.0	9,811	5,810	5,458	707072	9,889
50	9/21/2021	86.0	10,189	3,497	5,806	636850	9,429
51	9/21/2021	82.8	10,052	5,981	4,928	704304	12,536
52	9/22/2021	89.0	10,128	5,831	4,775	705256	11,974
53	9/22/2021	86.0	9,698	5,591	5,147	704200	9,939
54	9/23/2021	84.7	10,155	6,461	4,526	705522	9,854

55	9/24/2021	95.0	10,282	5,943	5,049	705300	9,653
56	9/25/2021	95.0	10,375	5,887	5,093	711566	9,867
57	9/25/2021	95.0	10,340	6,367	5,910	703852	9,834
58	9/26/2021	84.0	10,389	6,444	5,411	323000	8,731
59	9/26/2021	97.0	10,363	6,510	4,690	705888	11,187
60	9/26/2021	96.7	10,120	5,307	4,872	707408	9,695
61	9/27/2021	94.0	10,394	5,481	4,691	705120	11,820
62	9/27/2021	97.0	10,537	6,457	4,807	580570	10,038
63	9/27/2021	99.0	10,300	5,801	5,139	709034	9,792
64	9/28/2021	101.1	10,293	5,737	5,349	693224	9,710
65	9/28/2021	101.0	10,388	5,953	5,813	705580	9,891
66	9/28/2021	95.0	10,204	6,189	5,384	705300	10,703
67	9/28/2021	91.9	10,156	5,894	5,336	704856	9,760
68	9/29/2021	93.0	10,183	6,387	5,431	704963	9,662
69	9/29/2021	95.0	10,212	6,262	4,943	705896	10,698
70	9/29/2021	97.3	10,370	5,885	5,515	705632	9,792
71	9/30/2021	94.3	9,843	5,875	5,834	705878	11,764
72	9/30/2021	101.0	10,551	5,792	5,344	705698	9,597
73	9/30/2021	99.0	10,462	6,332	5,341	705456	9,721
74	9/30/2021	100.7	10,259	6,724	5,674	705896	9,705
75	10/1/2021	92.5	9,810	6,367	5,928	705369	9,674
76	10/1/2021	103.0	10,217	6,238	5,864	705456	9,741
77	10/1/2021	99.0	10,205	6,422	5,451	705369	9,669
78	10/1/2021	99.9	9,969	6,050	5,968	705456	9,768
79	10/2/2021	97.9	9,842	5,588	5,595	705913	9,581
80	10/2/2021	105.0	10,175	5,685	6,531	705456	9,747
81	10/2/2021	105.0	10,240	6,088	5,663	705236	9,483
82	10/2/2021	89.3	9,216	5,761	5,567	705456	9,710
83	10/3/2021	87.6	9,414	6,491	5,549	704987	9,697
84	10/3/2021	96.0	9,929	6,306	5,814	705469	9,583
85	10/3/2021	97.6	10,196	5,975	5,258	680154	9,339
86	10/4/2021	95.0	9,720	6,410	5,210	680147	10,265
87	10/4/2021	98	9858	6143	5383	680456	9491
88	10/4/2021	103	9980	6225	6047	680458	9573
89	10/4/2021	93	9609	5937	5335	680300	9405
90	10/5/2021	94	9614	6243	5392	679900	9653
91	10/5/2021	93.2	9401	6105	5235	680570	9514
92	10/5/2021	100.2	9803	5596	5863	680460	9625
93	10/5/2021	88.4	9177	6147	5795	680200	9547
94	10/6/2021	88.3	8954	6044	5029	681000	10369
95	10/6/2021	93.4	8819	6101	5383	681480	9643
96	10/6/2021	99.8	9458	5608	6296	679980	9633
97	10/6/2021	93.6	8813	4829	5100	681000	9500
98	10/7/2021	93.2	9171	5884	4728	681400	10196
99	10/7/2021	97.5	8988	5719	5238	682910	9532
100	10/7/2021	97.7	9336	5292	4960	642790	9373
101	10/7/2021	103	9345	5761	5366	681500	9470
102	10/8/2021	99.9	9000	6133	5358	680300	9262
103	10/8/2021	100.2	9263	6147	5142	673170	9550
104	10/8/2021	104	9349	6246	6081	687370	10590
105	10/9/2021	101.9	8754	5899	5389	681400	9375
106	10/9/2021	101	9167	6923	5534	680700	9420
107	10/9/2021	103	9010	6366	5684	688210	9367
108	10/9/2021	106	9138	6143	5802	681880	9089

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API 47- 041 - 05706 Farm name McDonald Well number 1211 S9H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
Marcellus	6785-7046	TVD 7295-28416 MD

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump  
 SHUT-IN PRESSURE Surface 2417 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 607 hrs  
 OPEN FLOW Gas 23952 mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water 744 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*		
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					JAN 29 2024
					WV Department of Environmental Protection

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 1/25/2024



**HG Energy II Appalachia, LLC**  
**McDonald 1211 S-9H**  
**Lithology Record**

Formation	Top MD	Top TVD	Base MD	Base TVD
Coal	58	58	62	62
Coal	425	425	430	430
Coal	508	508	512	512
1st salt sand	818	818	1003	1003
Coal	992	992	996	996
Coal	1000	1000	1004	1004
Coal	1032	1032	1036	1036
2nd salt sand	1045	1045	1086	1086
Third salt sand	1173	1173	1195	1195
Upper Maxton	1298	1298	1325	1325
Middle Maxton	1373	1373	1405	1405
Little Lime	1463	1463	1486	1486
Big Lime	1504	1504	1573	1573
Big Injun	1573	1573	1676	1676
Gantz	1857	1857	1917	1917
Fifty foot Sand	1964	1964	1990	1990
T- Thirty foot Sand	2066	2065	2081	2082
Gordon Stray sand	2077	2076	2147	2145
Gordon sand	2147	2145	2245	2243
5th sand	2349	2347	2388	2386
Bayard	2436	2334	2451	2349
Speechley	3055	3052	3076	3073
Balltown	3260	3257	3300	3297
Bradford	3724	3715	3802	3790
Benson	4424	4372	4435	4382
Rhinestreet	6128	5977	6397	6233
Cashaqua	6397	6233	6628	6432
Middlesex	6628	6432	6745	6513
West River	6745	6513	6874	6606
Burket	6874	6606	6928	6639
Tully	6928	6639	7110	6727
Hamilton	7110	6727	7295	6785
Marcellus shale	7295	6785	28416	7046

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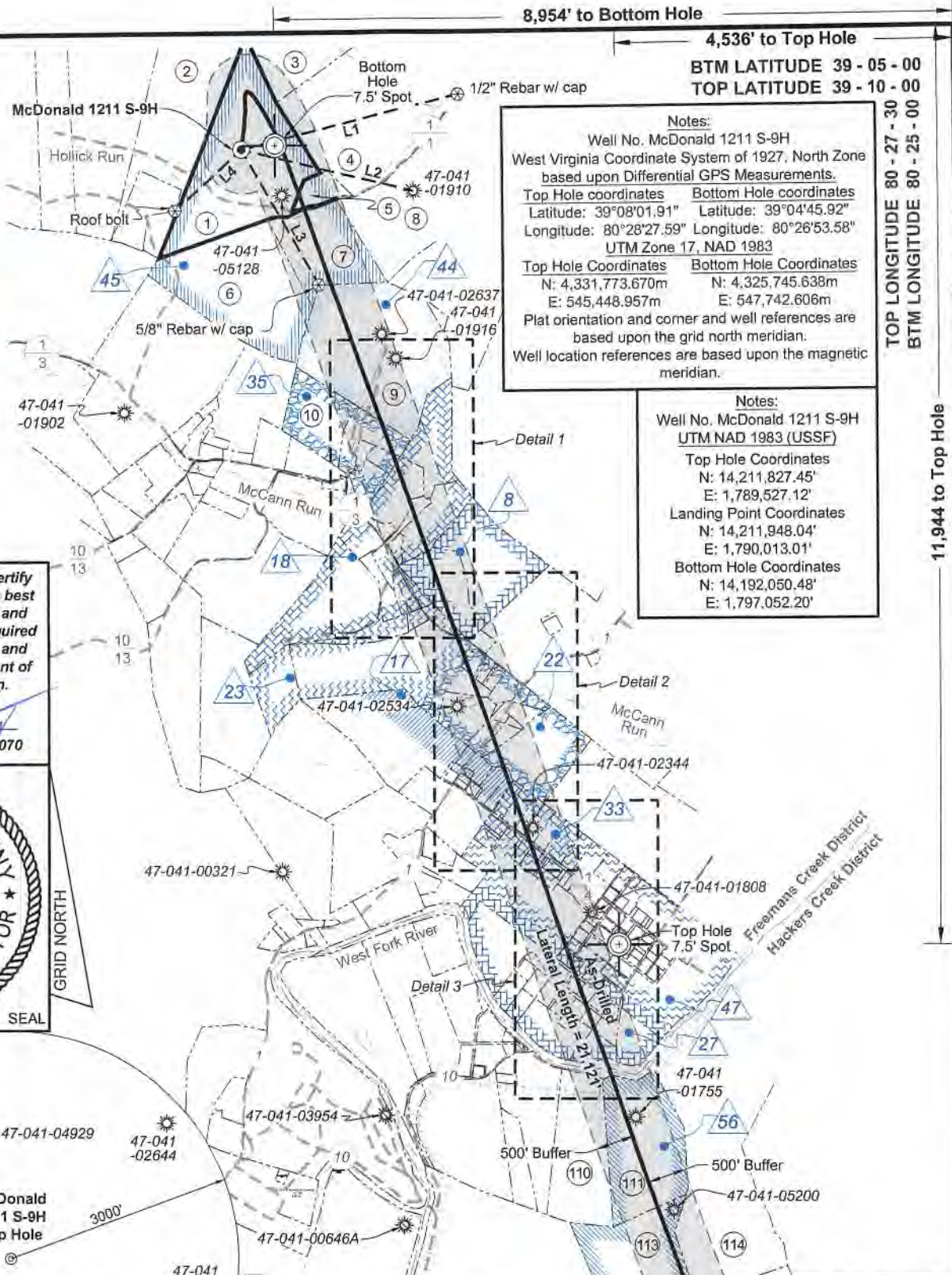
05/31/2024







Page 1 of 5

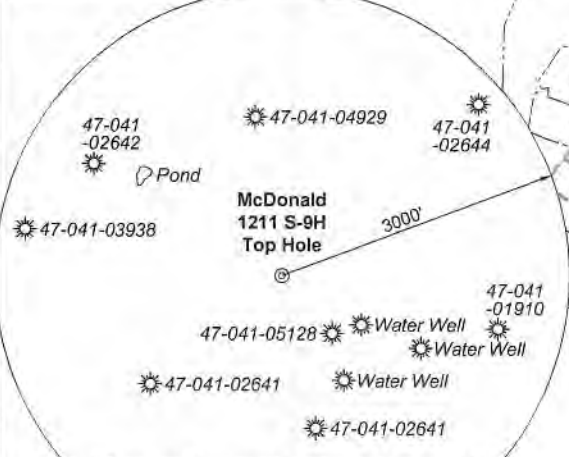


**Notes:**  
 Well No. McDonald 1211 S-9H  
 West Virginia Coordinate System of 1927, North Zone  
 based upon Differential GPS Measurements.  
 Top Hole coordinates Bottom Hole coordinates  
 Latitude: 39°08'01.91" Latitude: 39°04'45.92"  
 Longitude: 80°28'27.59" Longitude: 80°26'53.58"  
 UTM Zone 17, NAD 1983  
 Top Hole Coordinates Bottom Hole Coordinates  
 N: 4,331,773.670m N: 4,325,745.638m  
 E: 545,448.957m E: 547,742.606m  
 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. McDonald 1211 S-9H  
 UTM NAD 1983 (USSF)  
 Top Hole Coordinates  
 N: 14,211,827.45'  
 E: 1,789,527.12'  
 Landing Point Coordinates  
 N: 14,211,948.04'  
 E: 1,790,013.01'  
 Bottom Hole Coordinates  
 N: 14,192,050.48'  
 E: 1,797,052.20'

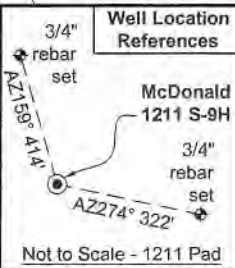
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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



Note: 1 Pond and 3 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.

Tag	Bearing	Dist.
L1	S 76°05' W	2,942.0'
L2	N 76°02' W	2,323.4'
L3	N 29°20' W	2,050.2'
L4	N 47°34' E	1,192.0'



FILE NO: 79-36-12-U-F-18  
 DRAWING NO: McDonald 1211 S-9H 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: December 22, 2021  
 OPERATOR'S WELL NO. McDonald 1211 S-9H  
 API WELL NO. 47-041-05706  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek TH - West Milford  
 DISTRICT: Freemans Creek QUADRANGLE: BH - Weston  
 SURFACE OWNER: HG Energy II Appalachia, LLC COUNTY: Putnam  
 ROYALTY OWNER: Mary E. Post, et al, et al LEASE NO: ACREAGE: 145.00  
 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: 7,046' TVD  
 28,416' 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

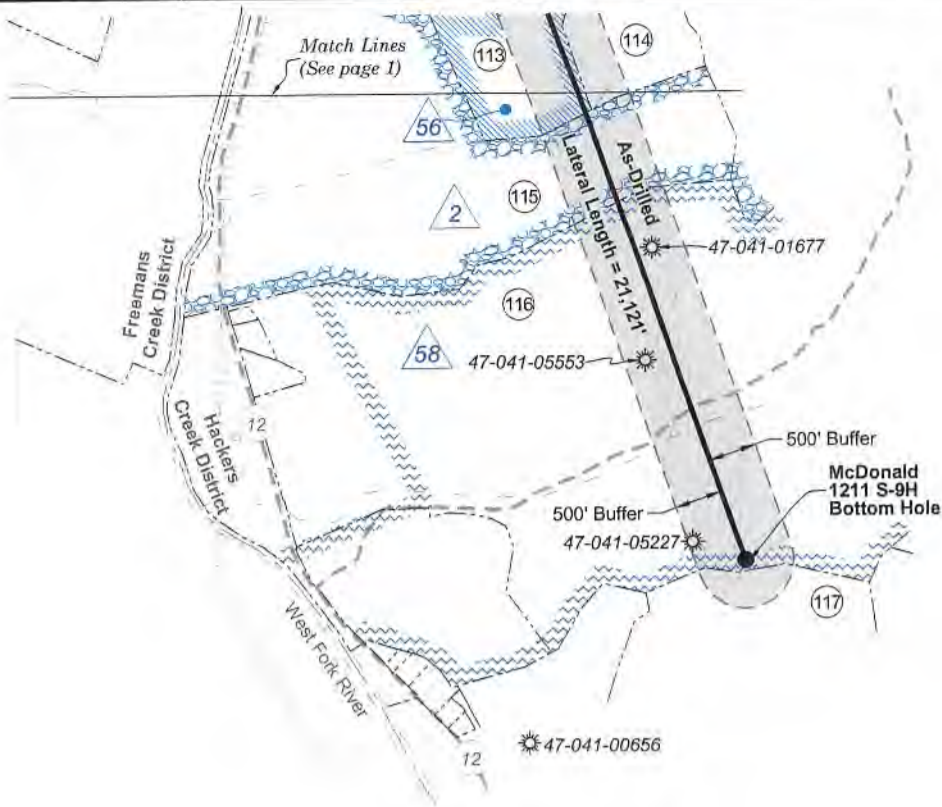
05/31/2024



**HG Energy II  
Appalachia, LLC  
Well No. McDonald  
1211 S-9H As-Drilled**



Page 2 of 5

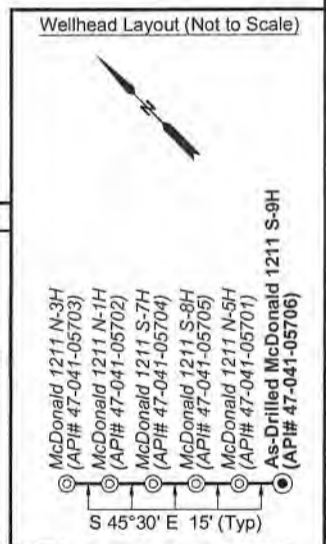


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Environmental Protection

No.	TM / Par	Owner	Bk / Pg	Ac.
1	7B / 10	HG Energy II Appalachia, LLC	730 / 677	61.50
2	7B / 9	Brincefield Family Trust	588 / 740	56.76
3	7B / 23	Atlantic Coast Pipeline, LLC	700 / 779	167.89
4	7B / 22	HG Energy II Appalachia, LLC	730 / 677	73.68
5	7B / 10.1	Charles H. & Vanessa D. Brosius	616 / 527	5.00
6	7B / 11	HG Energy II Appalachia, LLC	730 / 677	54.50
7	7B / 13	Melvin B. & Terri D. Woods	672 / 241	25.50
8	7B / 21	John J. Oldaker, Jr.	658 / 56	64.86
9	7B / 14	Kelvin G. & Diana M. Willston	448 / 11	65.00
10	7C / 32	Kelvin G. & Trent M. Willston	673 / 669	16.08
11	7C / 32.4	Lucas O. Himelrick	666 / 409	8.51
12	7C / 34.1	Timothy L. & Leann Kerns	714 / 779	13.38
13	7C / 32.1	Brad Hudson	746 / 364	1.31
14	7C / 32.2	Richard E. Stutler II	543 / 369	2.07
15	7C / 32.3	Martin T. & Betty A. Queen	544 / 566	4.36
16	7C / 30.1	Carolyn Hamric	729 / 833	9.46
17	7C / 34	Carolyn Hamric	W49 / 455	1.80

Continued on Page 5

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



FILE NO: 79-36-12-U-F-18  
DRAWING NO: McDonald 1211 S-9H 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: December 22 2021  
OPERATOR'S WELL NO. McDonald 1211 S-9H  
API WELL NO  
47 - 041 - 05706  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek  
SURFACE OWNER: HG Energy II Appalachia, LLC  
ROYALTY OWNER: Mary E. Post, et al, et al LEASE NO: ACREAGE: 145.00  
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: 28,416' MD 7,046' TVD

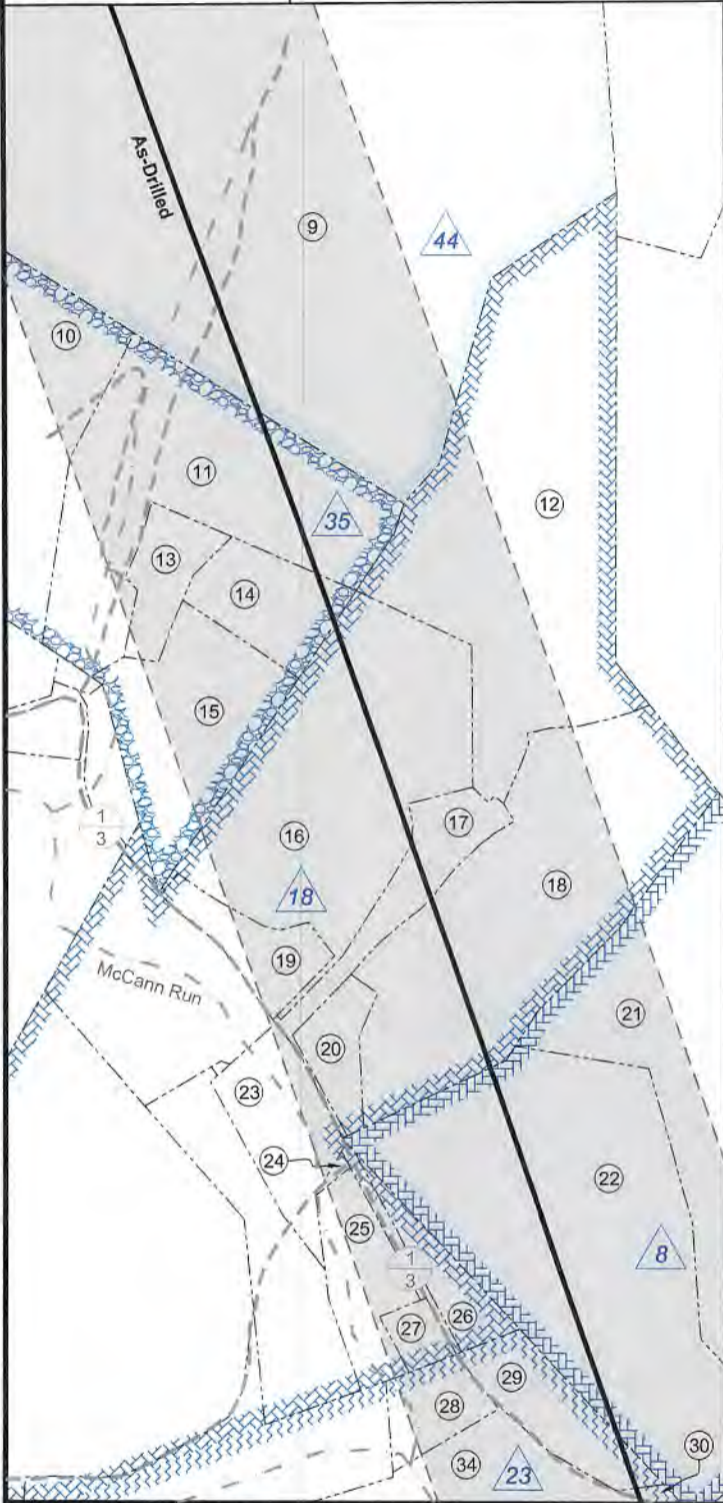
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101

05/31/2024





Detail 1 - Scale: 1" = 500'



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ID	Lease
2	Prudence M. O'hara, et al
8	T.S. Allman, et al
17	Maggie Cottrill
18	Cordelia Bailey
21	Dwight L. Rinehart, et ux
22	C. Burke Morris, et al
23	C. Burke Morris, et al
27	E.R. Bennett, et al
27.4	Betty M. Paugh
33	H.A. Fletcher, et al
35	Jesse Leeson, et al
44	Thomas .P. Barb, et al
45	Mary E. Post, et al
47	Minter E. Bailey
56	Mary J. Hayes
58	A.W. Woodford, et al

FILE NO: 79-36-12-U-F-18  
DRAWING NO: McDonald 1211 S-9H 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: December 22 20 21  
OPERATOR'S WELL NO. McDonald 1211 S-9H  
API WELL NO  
47 - 041 - 05706  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek

TH - West Milford  
QUADRANGLE: BH - Weston  
COUNTY: Boone  
ACREAGE: 61.50

SURFACE OWNER: HG Energy II Appalachia, LLC

ROYALTY OWNER: Mary E. Post, et al, et al

LEASE NO: ACREAGE: 145.00

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: 28,416' MD 7,046' 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



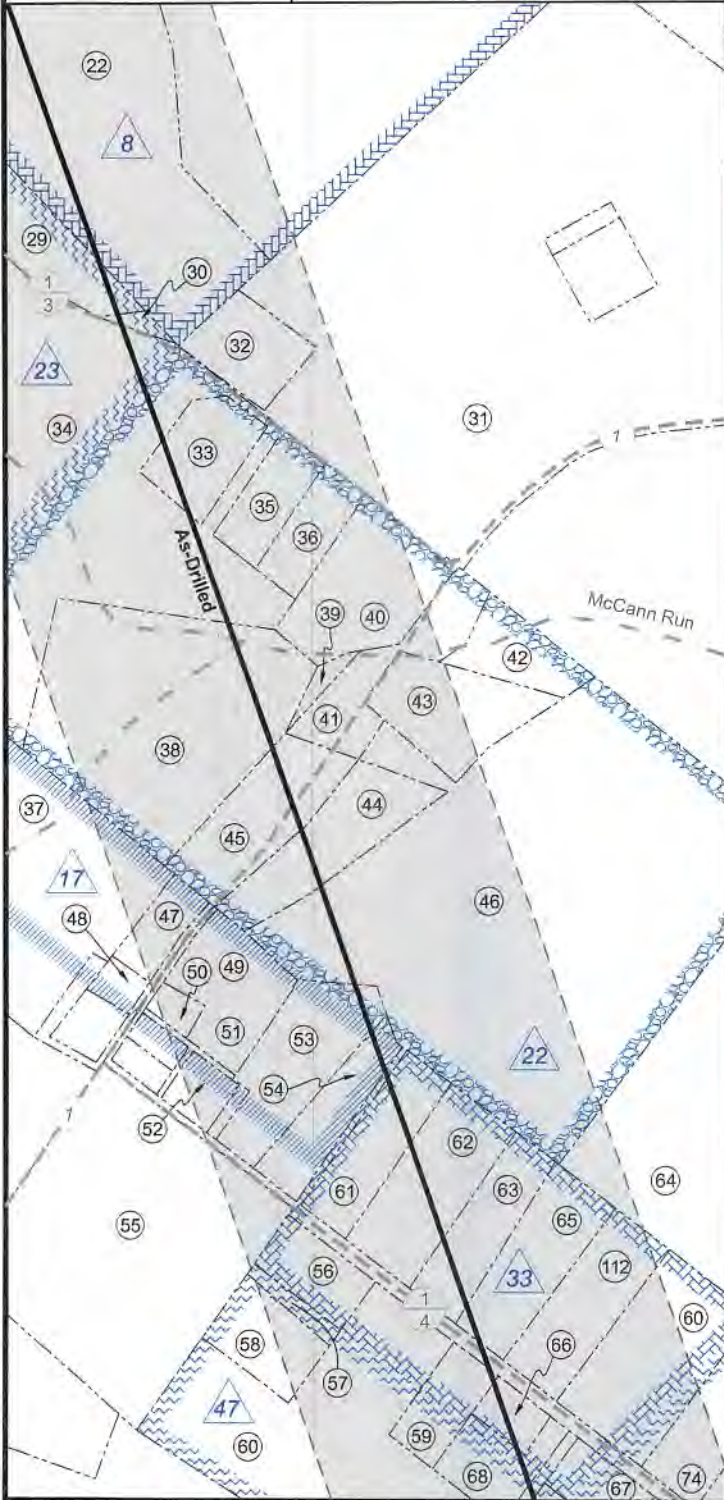


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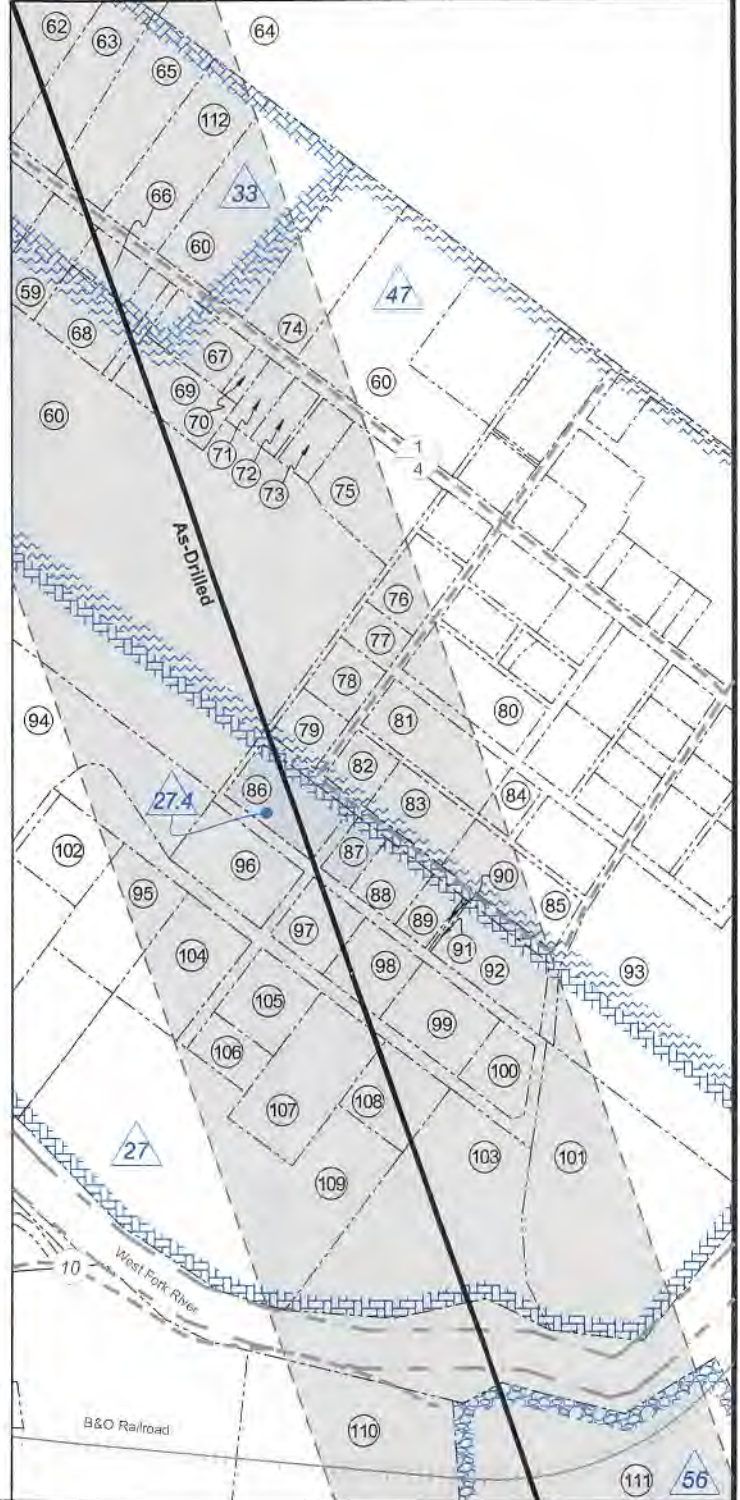
JAN 29 2024

WV Department of  
Environmental Protection

Detail 2 - Scale: 1" = 500'



Detail 3 - Scale: 1" = 500'



FILE NO: 79-36-12-U-F-18

DRAWING NO: McDonald 1211 S-9H 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: December 22, 2021

OPERATOR'S WELL NO. McDonald 1211 S-9H

API WELL NO

47 - 041 - 05706  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek

DISTRICT: Freemans Creek

SURFACE OWNER: HG Energy II Appalachia, LLC

ROYALTY OWNER: Mary E. Post, et al, et al

LEASE NO: \_\_\_\_\_ ACREAGE: 145.00

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: 28,416' MD 7,046' TVD

TH - West Milford  
QUADRANGLE: BH - Weston  
COUNTY: Putnam

ACREAGE: 61.50

05/31/2024

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





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Environmental Protection

No.	TM / Par	Owner	Bk / Pg	Ac.
18	7C / 34.2	Richard A. & Carolyn M. Hamric	714 / 783	10.89
19	7C / 30.2	Connie Riffle	W45 / 229	1.40
20	7C / 30.3	Barbara J. & Herman Watson Jr.	511 / 626	1.08
21	7C / 35	Mary E. & Robert J. Riffle	751 / 202	25.09
22	7C / 36	Mary E. & Robert J. Riffle	751 / 202	14.00
23	7C / 30.6	Richard A. & Carolyn M. Hamric	386 / 361	2.34
24	7C / 30.9	Richard A. & Carolyn M. Hamric	446 / 209	0.06
25	7C / 30.4	Penelope A. McCormick	W19 / 187	1.89
26	7C / 37	Timothy J. Hicks	680 / 257	1.25
27	7C / 38	Timothy J. Hicks	680 / 257	0.50
28	7C / 27	Stephen R. & Joyce A. Lamb	664 / 152	1.25
29	7C / 39	Miguel A. & Betsy L. Rodriguez	622 / 418	1.96
30	7C / 40	Mary E. & Robert J. Riffle	725 / 202	0.12
31	7C / 57.4	Lynwood L. & Donna S. Wolfe	712 / 455	37.69
32	7C / 41	McCanns Run Church	110 / 398	1.13
33	7C / 26.4	Charles D. & Melinda S. Bailey	614 / 321	0.70
34	7C / 26.1	Charles D. & Melinda S. Bailey	653 / 713	42.15
35	7C / 43	Charles D. & Melinda S. Bailey	653 / 713	0.84
36	7C / 44	Beth Ann Dunham	746 / 523	1.16
37	7C / 25	Fred Allen Bailey	452 / 268	32.27
38	7C / 46	Charles D. & Melinda S. Bailey	653 / 713	7.30
39	7C / 47	Michael D. & Patricia L. Goodwin	461 / 551	0.25
40	7C / 45	Stephen D. Lemon	571 / 293	2.50
41	7C / 56	Michael D. & Patricia L. Goodwin	461 / 551	1.98
42	7C / 54.1	Michael D. & Patricia L. Goodwin	536 / 524	1.58
43	7C / 56.1	Michael D. Goodwin, Jr.	539 / 515	2.00
44	7C / 55	Michael D. & Patricia L. Goodwin	461 / 551	1.75
45	7C / 48	Michael D. & Patricia L. Goodwin	461 / 551	2.00
46	7C / 54	Joshua V. & Marsha T. Garton	665 / 309	20.29
47	7C / 49	Randal Lynn McVay	670 / 604	0.80
48	7C / 50.1	Christina N. & Stanley L. Herrod, II	751 / 222	0.30
49	3 / 1	Timothy & Cheryl Kelley	477 / 138	1.81
50	3 / 1.1	Timolhy C. Kelley	697 / 589	0.26
51	3 / 3.1	Donna C. Wright, et al	758 / 381	0.26
52	3 / 4	Bobbie Jo & Carie O. Lockhart	650 / 407	0.52
53	3 / 6	Sandra K. & Richard G. Smith II	591 / 485	2.32
54	3 / 2	Sandra K. & Richard G. Smith II	670 / 315	1.32
55	7C / 51	Nathan King	720 / 789	9.75
56	3 / 9.1	Barbara L. & John T. Boore	579 / 504	0.99
57	3 / 9.4	Waitman Rutherford	580 / 493	0.26
58	3 / 9.2	Waitman Rutherford	353 / 198	1.02
59	7C / 53.2	Timothy W. & Twila Perkins	714 / 287	1.00
60	7C / 53.4	Jeremy & Jenny L. Garton	532 / 605	37.21
61	3 / 8	Sondra A. Granlund	512 / 158	1.64
62	3 / 8.1	Kenneth W. & Savannah D. Catlin	478 / 148	2.36
63	7C / 53.1	Kenneth W. & Savannah D. Catlin	347 / 593	1.70
64	7C / 66.1	Joshua V. & Marsha T. Garton	550 / 523	57.25
65	7C / 53.7	Kenneth W. & Savannah D. Catlin	531 / 764	2.00
66	3 / 11	Brittany Nicole Strother	W3 / 320	0.50
67	3 / 13	Robert L. & Nancy C. Montgomery	346 / 416	0.86

No.	TM / Par	Owner	Bk / Pg	Ac.
68	3 / 11.1	Sherry L. Strother & David A. Cosner	736 / 882	1.09
69	3 / 12	Robert L. & Nancy C. Montgomery	369 / 99	1.03
70	3 / 14	Robert L. & Nancy C. Montgomery	346 / 416	0.17
71	3 / 15.1	Barbara A. White	W39 / 37	0.37
72	3 / 15	Barbara A. White	W39 / 37	0.63
73	7C / 53.3	James R. & Joycelyn A. Riffle	544 / 318	0.46
74	7C / 53.11	Jeremy & Jenny Garton	591 / 768	2.00
75	7C / 53	Julianne Garton	597 / 342	1.58
76	1 / 4	Frank & Lillie Swisher	550 / 617	0.77
77	1 / 5	Carol Lee Swisher	367 / 565	0.29
78	1 / 6	Bruce Paugh, et al	W52 / 429	0.56
79	1 / 7	Bruce Paugh, et al	W52 / 429	0.54
80	1 / 15	Thom Posey	762 / 647	1.26
81	1 / 13	Dawn Snyder Posey	720 / 879	1.31
82	1 / 12	Bruce Paugh	W52 / 429	0.47
83	1 / 11	Benjamin M. Smith	697 / 245	0.85
84	1 / 14	Dawn Snyder Posey	720 / 879	0.34
85	1 / 10	Roberta R. Lamb	642 / 262	3.57
86	1 / 8	Sherri Romans	W52 / 429	1.08
87	1 / 9	Bruce Paugh, et al	W52 / 429	0.55
88	1 / 9.2	Betty G. & Freddie L. Fox, Sr.	702 / 171	0.57
89	1 / 9.1	William C. & Mable A. Smarr	426 / 13	0.38
90	1 / 9.3	William C. & Mable A. Smarr	--- / ---	0.03
91	1 / 50.1	David G. & Eileen F. Sellers	548 / 325	0.03
92	1 / 50	David G. & Eileen F. Sellers	530 / 436	1.19
93	1 / 74	Joshua V. & Marsha T. Garton	476 / 408	16.92
94	7C / 52.7	Jeremy R. & Jennifer L. Garton	549 / 377	14.03
95	7D / 62	Joseph A. & Malissa McWhorter Miller	584 / 422	1.58
96	7D / 61	Joseph & Beverly Butcher	550 / 324	1.29
97	7D / 57	Erin B. & William M. Hunt, II	628 / 748	0.74
98	7D / 55	Joseph A. & Debra B. Thompson	595 / 70	0.81
99	7D / 52	Erin B. & William M. Hunt, II	621 / 776	1.09
100	7D / 48	Mary E. Rittenhouse	584 / 670	0.69
101	7D / 46	Ericka & Ricky D. Bailey, II, et al	565 / 1	6.12
102	7C / 52.6	Jeremy R. & Jennifer L. Garton	586 / 138	1.00
103	7D / 45	Shirley A. Grewe	522 / 342	5.19
104	7D / 56	Christopher R. & Ginger R. Franklin	640 / 358	1.55
105	7D / 53	Erlo T. & Stephanie M. Smith	687 / 79	0.93
106	7D / 49	Erlo T. & Stephanie M. Smith	687 / 79	0.53
107	7D / 50	William P. & Amy W. Goldsmith	665 / 391	1.97
108	7D / 47	Steven B. & Valerie E. Corley	668 / 328	1.00
109	7D / 51	William P. & Amy W. Goldsmith	665 / 391	8.89
110	7D / 11	Ricky W. Frame, et al	677 / 723	31.50
111	7D / 22	James Alonzo & Carol Trefz Smith	342 / 89	37.85
112	7C / 53.12	Michael L. & Jennifer N. Oldaker	748 / 450	2.00
113	7D / 10	Tamela B. Smith, et al	452 / 311	40.00
114	7C / 5	John L. & Sue Ann Spiker	549 / 219	135.30
115	7D / 5	WVU Board of Governors	584 / 524	323.00
116	7D / 9.1	Deerfield Country Club Inc.	359 / 409	572.21
117	7E / 30	B. Jean Nicholson	509 / 215	61.17

FILE NO: 79-36-12-U-F-18

DRAWING NO: McDonald 1211 S-9H 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: December 22 2021

OPERATOR'S WELL NO. McDonald 1211 S-9H

API WELL NO

47 - 041 - 05706  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek

DISTRICT: Freemans Creek

SURFACE OWNER: HG Energy II Appalachia, LLC

ROYALTY OWNER: Mary E. Post, et al, et al

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: 28,416' 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

TH - West Milford  
QUADRANGLE: BH - Weston

COUNT 05/01/2024

ACREAGE: 61.50

ACREAGE: 145.00

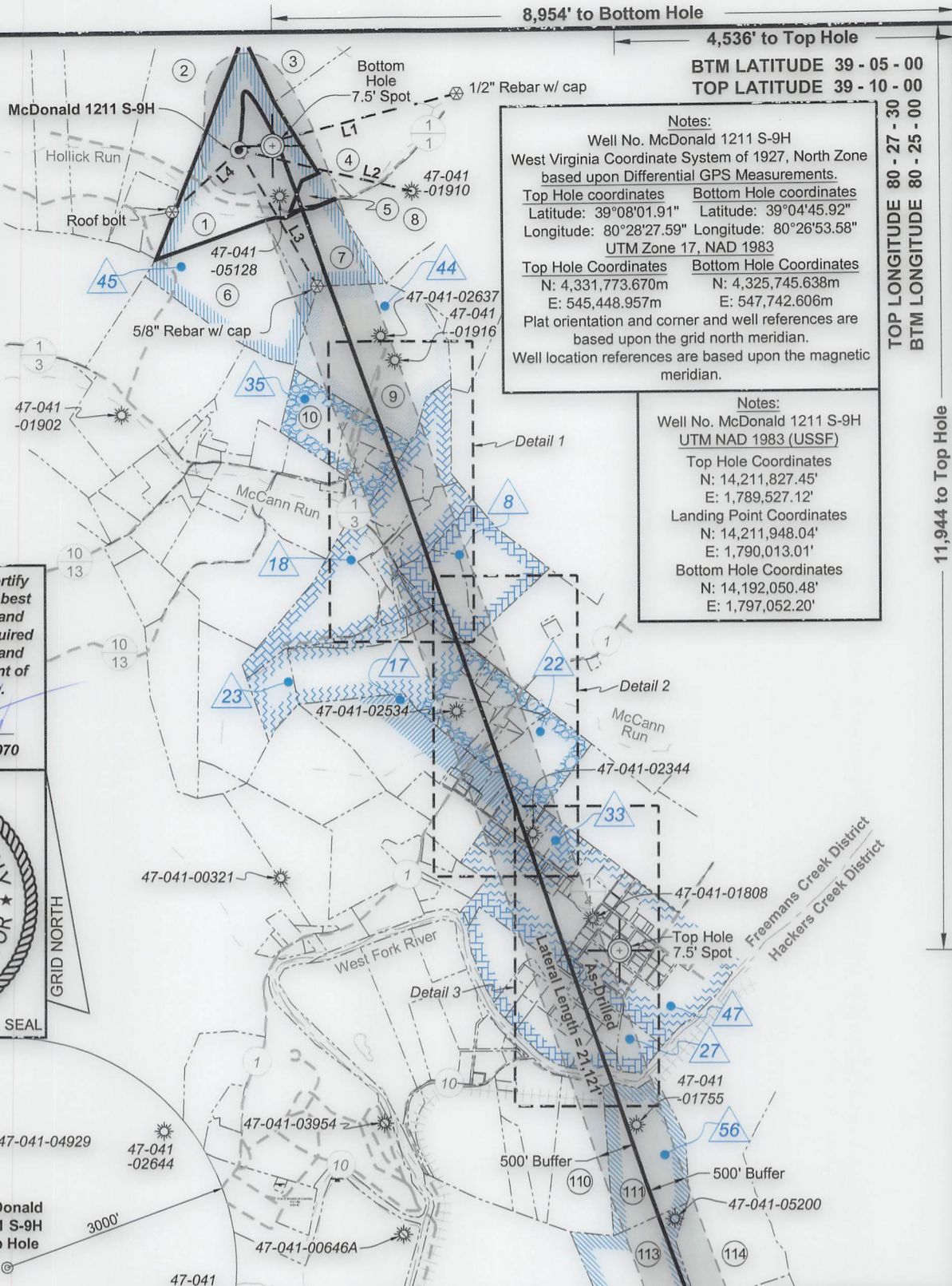
7,046' TVD



**HG Energy II  
Appalachia, LLC**  
Well No. McDonald  
1211 S-9H As-Drilled



Page 1 of 5

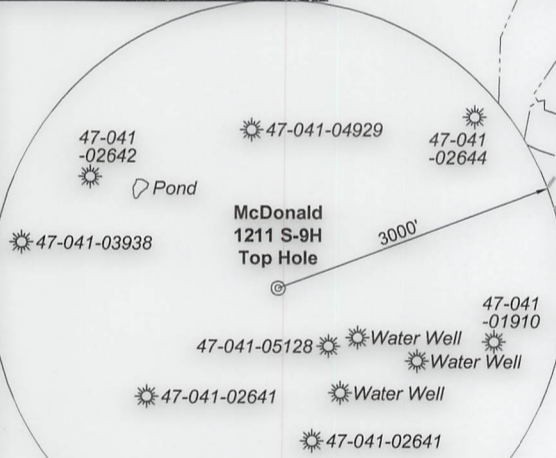
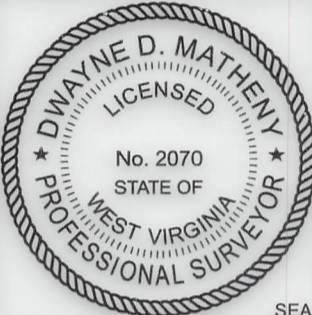


**Notes:**  
Well No. McDonald 1211 S-9H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates Bottom Hole coordinates  
Latitude: 39°08'01.91" Latitude: 39°04'45.92"  
Longitude: 80°28'27.59" Longitude: 80°26'53.58"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates Bottom Hole Coordinates  
N: 4,331,773.670m N: 4,325,745.638m  
E: 545,448.957m E: 547,742.606m  
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. McDonald 1211 S-9H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,211,827.45'  
E: 1,789,527.12'  
Landing Point Coordinates  
N: 14,211,948.04'  
E: 1,790,013.01'  
Bottom Hole Coordinates  
N: 14,192,050.48'  
E: 1,797,052.20'

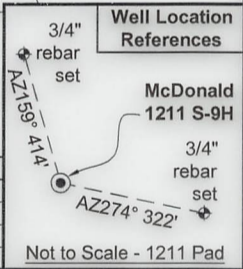
I, the undersigned, hereby certify  
that this plat is correct to the best  
of my knowledge and belief and  
shows all the information required  
by law and the rules issued and  
prescribed by the Department of  
Environmental Protection.

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



Note: 1 Pond and 3 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.

Tag	Bearing	Dist.
L1	S 76°05' W	2,942.0'
L2	N 76°02' W	2,323.4'
L3	N 29°20' W	2,050.2'
L4	N 47°34' E	1,192.0'



FILE NO: 79-36-12-U-F-18  
DRAWING NO: McDonald 1211 S-9H 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: December 22 2021  
OPERATOR'S WELL NO. McDonald 1211 S-9H  
API WELL NO  
47 - 041 - 05706  
STATE COUNTY PERMIT

WELL TYPE:  OIL  GAS  LIQUID INJECTION  WASTE DISPOSAL  
(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW  
LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek  
SURFACE OWNER: HG Energy II Appalachia, LLC  
ROYALTY OWNER: Mary E. Post, et al, et al LEASE NO: ACREAGE: 145.00  
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: 28,416' 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

8,954' to Bottom Hole  
4,536' to Top Hole  
BTM LATITUDE 39 - 05 - 00  
TOP LATITUDE 39 - 10 - 00  
TOP LONGITUDE 80 - 27 - 30  
BTM LONGITUDE 80 - 25 - 00

11,944' to Top Hole  
1,424' to Bottom Hole

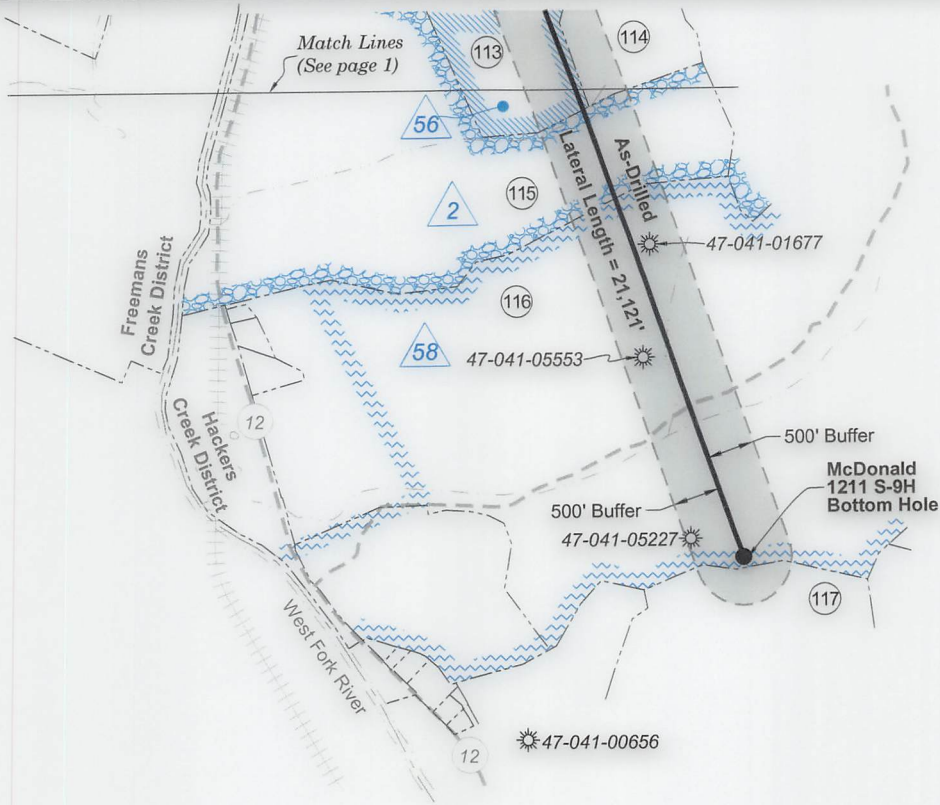
TH - West Milford  
QUADRANGLE: BH - Weston  
COUNTY: Putnam  
ACREAGE: 61.50  
DATE: 05/31/2024



**HG Energy II  
Appalachia, LLC  
Well No. McDonald  
1211 S-9H As-Drilled**



Page 2 of 5



No.	TM / Par	Owner	Bk / Pg	Ac.
1	7B / 10	HG Energy II Appalachia, LLC	730 / 677	61.50
2	7B / 9	Brincefield Family Trust	588 / 740	56.76
3	7B / 23	Atlantic Coast Pipeline, LLC	700 / 779	167.89
4	7B / 22	HG Energy II Appalachia, LLC	730 / 677	73.68
5	7B / 10.1	Charles H. & Vanessa D. Brosius	616 / 527	5.00
6	7B / 11	HG Energy II Appalachia, LLC	730 / 677	54.50
7	7B / 13	Melvin B. & Terri D. Woods	672 / 241	25.50
8	7B / 21	John J. Oldaker, Jr.	658 / 56	64.86
9	7B / 14	Kelvin G. & Diana M. Willston	448 / 11	65.00
10	7C / 32	Kelvin G. & Trent M. Willston	673 / 669	16.08
11	7C / 32.4	Lucas O. Himelrick	666 / 409	8.51
12	7C / 34.1	Timothy L. & Leann Kerns	714 / 779	13.38
13	7C / 32.1	Brad Hudson	746 / 364	1.31
14	7C / 32.2	Richard E. Stutler II	543 / 369	2.07
15	7C / 32.3	Martin T. & Betty A. Queen	544 / 566	4.36
16	7C / 30.1	Carolyn Hamric	729 / 833	9.46
17	7C / 34	Carolyn Hamric	W49 / 455	1.80

Continued on Page 5

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

Wellhead Layout (Not to Scale)



FILE NO: 79-36-12-U-F-18  
 DRAWING NO: McDonald 1211 S-9H 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: December 22 20 21  
 OPERATOR'S WELL NO. McDonald 1211 S-9H  
 API WELL NO  
47 - 041 - 05706  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek  
 DISTRICT: Freemans Creek

TH - West Milford  
 QUADRANGLE: BH - Weston  
 COUNTY: Wayne  
 ACREAGE: 61.50

SURFACE OWNER: HG Energy II Appalachia, LLC

ROYALTY OWNER: Mary E. Post, et al, et al

LEASE NO: \_\_\_\_\_ ACREAGE: 145.00

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: 7,046' TVD  
28,416' 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

05/31/2024





Detail 1 - Scale: 1" = 500'



ID	Lease
2	Prudence M. O'hara, et al
8	T.S. Allman, et al
17	Maggie Cottrill
18	Cordelia Bailey
21	Dwight L. Rinehart, et ux
22	C. Burke Morris, et al
23	C. Burke Morris, et al
27	E.R. Bennett, et al
27.4	Betty M. Paugh
33	H.A. Fletcher, et al
35	Jesse Leeson, et al
44	Thomas .P. Barb, et al
45	Mary E. Post, et al
47	Minter E. Bailey
56	Mary J. Hayes
58	A.W. Woodford, et al

FILE NO: 79-36-12-U-F-18  
DRAWING NO: McDonald 1211 S-9H 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: December 22 2021  
OPERATOR'S WELL NO. McDonald 1211 S-9H  
API WELL NO  
47 - 041 - 05706  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek  
DISTRICT: Freemans Creek

TH - West Milford  
QUADRANGLE: BH - Weston  
COUNTY: Lawrence  
ACREAGE: 61.50

SURFACE OWNER: HG Energy II Appalachia, LLC

ROYALTY OWNER: Mary E. Post, et al, et al

LEASE NO: \_\_\_\_\_ ACREAGE: 145.00

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: 7,046' TVD 28,416' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

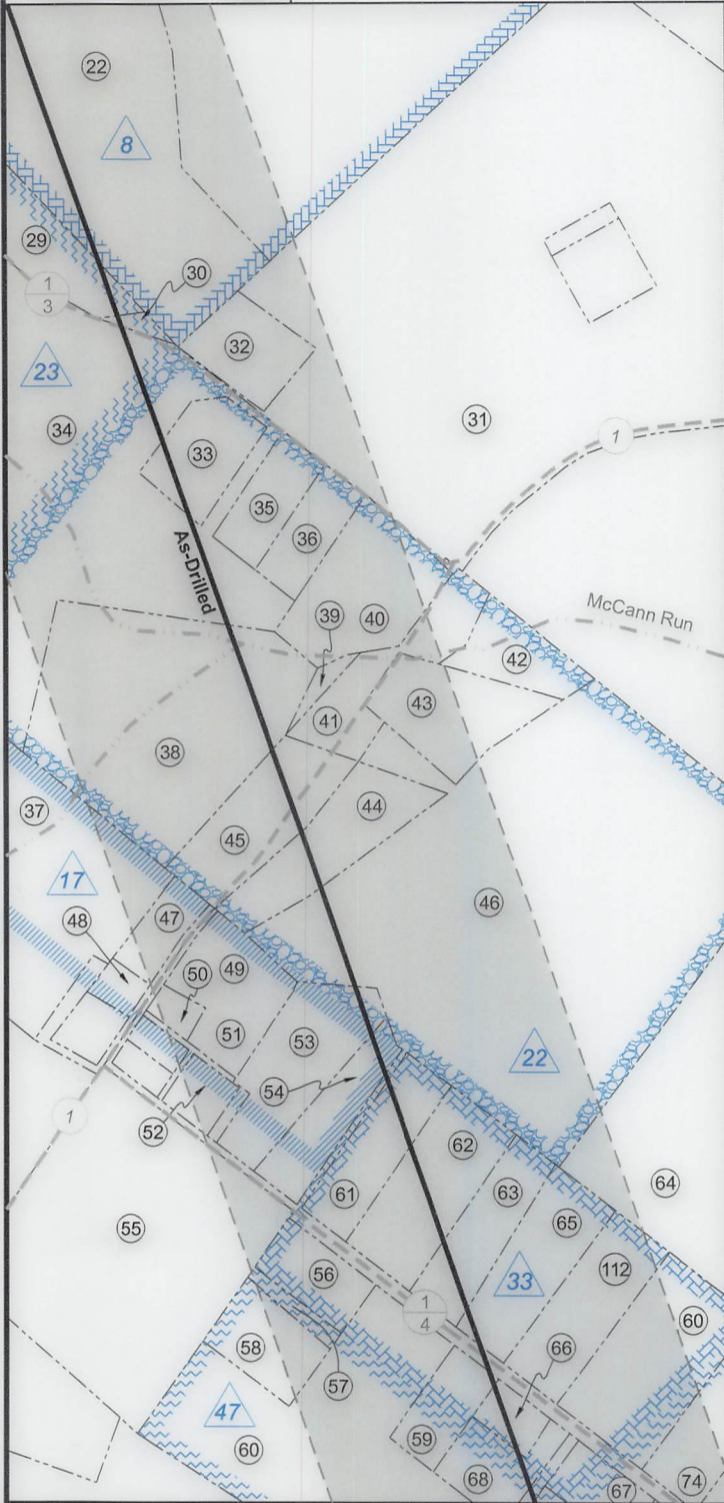
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

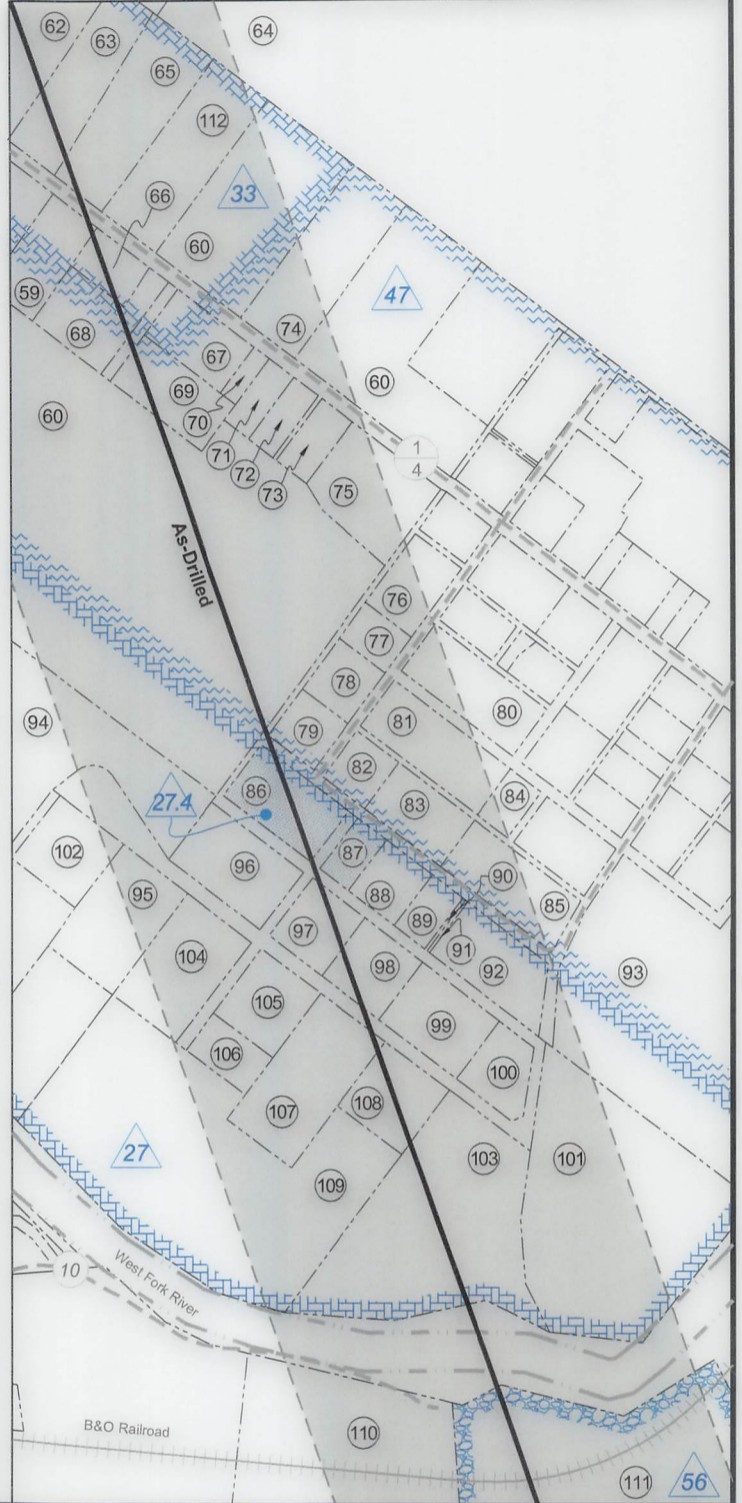




Detail 2 - Scale: 1" = 500'



Detail 3 - Scale: 1" = 500'



FILE NO: 79-36-12-U-F-18  
DRAWING NO: McDonald 1211 S-9H 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: December 22 20 21  
OPERATOR'S WELL NO. McDonald 1211 S-9H  
API WELL NO  
47 - 041 - 05706  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek

DISTRICT: Freemans Creek

SURFACE OWNER: HG Energy II Appalachia, LLC

ROYALTY OWNER: Mary E. Post, et al, et al

LEASE NO: ACREAGE: 145.00

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: 28,416' MD

TH - West Milford  
QUADRANGLE: BH - Weston  
COUNTY: Putnam  
ACREAGE: 61.50

05/31/2024

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

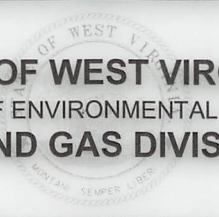
DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101





No.	TM / Par	Owner	Bk / Pg	Ac.
18	7C / 34.2	Richard A. & Carolyn M. Hamric	714 / 783	10.89
19	7C / 30.2	Connie Riffle	W45 / 229	1.40
20	7C / 30.3	Barbara J. & Herman Watson Jr.	511 / 626	1.08
21	7C / 35	Mary E. & Robert J. Riffle	751 / 202	25.09
22	7C / 36	Mary E. & Robert J. Riffle	751 / 202	14.00
23	7C / 30.6	Richard A. & Carolyn M. Hamric	386 / 361	2.34
24	7C / 30.9	Richard A. & Carolyn M. Hamric	446 / 209	0.06
25	7C / 30.4	Penelope A. McCormick	W19 / 187	1.89
26	7C / 37	Timothy J. Hicks	680 / 257	1.25
27	7C / 38	Timothy J. Hicks	680 / 257	0.50
28	7C / 27	Stephen R. & Joyce A. Lamb	664 / 152	1.25
29	7C / 39	Miguel A. & Betsy L. Rodriguez	622 / 418	1.96
30	7C / 40	Mary E. & Robert J. Riffle	725 / 202	0.12
31	7C / 57.4	Lynwood L. & Donna S. Wolfe	712 / 455	37.69
32	7C / 41	McCanns Run Church	110 / 398	1.13
33	7C / 26.4	Charles D. & Melinda S. Bailey	614 / 321	0.70
34	7C / 26.1	Charles D. & Melinda S. Bailey	653 / 713	42.15
35	7C / 43	Charles D. & Melinda S. Bailey	653 / 713	0.84
36	7C / 44	Beth Ann Dunham	746 / 523	1.16
37	7C / 25	Fred Allen Bailey	452 / 268	32.27
38	7C / 46	Charles D. & Melinda S. Bailey	653 / 713	7.30
39	7C / 47	Michael D. & Patricia L. Goodwin	461 / 551	0.25
40	7C / 45	Stephen D. Lemon	571 / 293	2.50
41	7C / 56	Michael D. & Patricia L. Goodwin	461 / 551	1.98
42	7C / 54.1	Michael D. & Patricia L. Goodwin	536 / 524	1.58
43	7C / 56.1	Michael D. Goodwin, Jr.	539 / 515	2.00
44	7C / 55	Michael D. & Patricia L. Goodwin	461 / 551	1.75
45	7C / 48	Michael D. & Patricia L. Goodwin	461 / 551	2.00
46	7C / 54	Joshua V. & Marsha T. Garton	665 / 309	20.29
47	7C / 49	Randal Lynn McVay	670 / 604	0.80
48	7C / 50.1	Christina N. & Stanley L. Herrod, II	751 / 222	0.30
49	3 / 1	Timothy & Cheryl Kelley	477 / 138	1.81
50	3 / 1.1	Timothy C. Kelley	697 / 589	0.26
51	3 / 3.1	Donna C. Wright, et al	758 / 381	0.26
52	3 / 4	Bobbie Jo & Carie O. Lockhart	650 / 407	0.52
53	3 / 6	Sandra K. & Richard G. Smith II	591 / 485	2.32
54	3 / 2	Sandra K. & Richard G. Smith II	670 / 315	1.32
55	7C / 51	Nathan King	720 / 789	9.75
56	3 / 9.1	Barbara L. & John T. Boore	579 / 504	0.99
57	3 / 9.4	Waitman Rutherford	580 / 493	0.26
58	3 / 9.2	Waitman Rutherford	353 / 198	1.02
59	7C / 53.2	Timothy W. & Twila Perkins	714 / 287	1.00
60	7C / 53.4	Jeremy & Jenny L. Garton	532 / 605	37.21
61	3 / 8	Sondra A. Granlund	512 / 158	1.64
62	3 / 8.1	Kenneth W. & Savannah D. Catlin	478 / 148	2.36
63	7C / 53.1	Kenneth W. & Savannah D. Catlin	347 / 593	1.70
64	7C / 66.1	Joshua V. & Marsha T. Garton	550 / 523	57.25
65	7C / 53.7	Kenneth W. & Savannah D. Catlin	531 / 764	2.00
66	3 / 11	Brittany Nicole Strother	W3 / 320	0.50
67	3 / 13	Robert L. & Nancy C. Montgomery	346 / 416	0.86

No.	TM / Par	Owner	Bk / Pg	Ac.
68	3 / 11.1	Sherry L. Strother & David A. Cosner	736 / 882	1.09
69	3 / 12	Robert L. & Nancy C. Montgomery	369 / 99	1.03
70	3 / 14	Robert L. & Nancy C. Montgomery	346 / 416	0.17
71	3 / 15.1	Barbara A. White	W39 / 37	0.37
72	3 / 15	Barbara A. White	W39 / 37	0.63
73	7C / 53.3	James R. & Joycelyn A. Riffle	544 / 318	0.46
74	7C / 53.11	Jeremy & Jenny Garton	591 / 768	2.00
75	7C / 53	Julianne Garton	597 / 342	1.58
76	1 / 4	Frank & Lillie Swisher	550 / 617	0.77
77	1 / 5	Carol Lee Swisher	367 / 565	0.29
78	1 / 6	Bruce Paugh, et al	W52 / 429	0.56
79	1 / 7	Bruce Paugh, et al	W52 / 429	0.54
80	1 / 15	Thorn Posey	762 / 647	1.26
81	1 / 13	Dawn Snyder Posey	720 / 879	1.31
82	1 / 12	Bruce Paugh	W52 / 429	0.47
83	1 / 11	Benjamin M. Smith	697 / 245	0.85
84	1 / 14	Dawn Snyder Posey	720 / 879	0.34
85	1 / 10	Roberta R. Lamb	642 / 262	3.57
86	1 / 8	Sherri Romans	W52 / 429	1.08
87	1 / 9	Bruce Paugh, et al	W52 / 429	0.55
88	1 / 9.2	Betty G. & Freddie L. Fox, Sr.	702 / 171	0.57
89	1 / 9.1	William C. & Mable A. Smarr	426 / 13	0.38
90	1 / 9.3	William C. & Mable A. Smarr	--- / ---	0.03
91	1 / 50.1	David G. & Eileen F. Sellers	548 / 325	0.03
92	1 / 50	David G. & Eileen F. Sellers	530 / 436	1.19
93	1 / 74	Joshua V. & Marsha T. Garton	476 / 408	16.92
94	7C / 52.7	Jeremy R. & Jennifer L. Garton	549 / 377	14.03
95	7D / 62	Joseph A. & Malissa McWhorter Miller	584 / 422	1.58
96	7D / 61	Joseph & Beverly Butcher	550 / 324	1.29
97	7D / 57	Erin B. & William M. Hunt, II	628 / 748	0.74
98	7D / 55	Joseph A. & Debra B. Thompson	595 / 70	0.81
99	7D / 52	Erin B. & William M. Hunt, II	621 / 776	1.09
100	7D / 48	Mary E. Rittenhouse	584 / 670	0.69
101	7D / 46	Ericka & Ricky D. Bailey, II, et al	565 / 1	6.12
102	7C / 52.6	Jeremy R. & Jennifer L. Garton	586 / 138	1.00
103	7D / 45	Shirley A. Grewe	522 / 342	5.19
104	7D / 56	Christopher R. & Ginger R. Franklin	640 / 358	1.55
105	7D / 53	Erla T. & Stephanie M. Smith	687 / 79	0.93
106	7D / 49	Erla T. & Stephanie M. Smith	687 / 79	0.53
107	7D / 50	William P. & Amy W. Goldsmith	665 / 391	1.97
108	7D / 47	Steven B. & Valerie E. Corley	668 / 328	1.00
109	7D / 51	William P. & Amy W. Goldsmith	665 / 391	8.89
110	7D / 11	Ricky W. Frame, et al	677 / 723	31.50
111	7D / 22	James Alonzo & Carol Trefz Smith	342 / 89	37.85
112	7C / 53.12	Michael L. & Jennifer N. Oldaker	748 / 450	2.00
113	7D / 10	Tamela B. Smith, et al	452 / 311	40.00
114	7C / 5	John L. & Sue Ann Spiker	549 / 219	135.30
115	7D / 5	WVU Board of Governors	584 / 524	323.00
116	7D / 9.1	Deerfield Country Club Inc.	359 / 409	572.21
117	7E / 30	B. Jean Nicholson	509 / 215	61.17

FILE NO: 79-36-12-U-F-18	 <b>STATE OF WEST VIRGINIA</b> DEPARTMENT OF ENVIRONMENTAL PROTECTION <b>OIL AND GAS DIVISION</b>	DATE: December 22 2021
DRAWING NO: McDonald 1211 S-9H As-Drilled		OPERATOR'S WELL NO. McDonald 1211 S-9H
SCALE: 1" = 2000'		API WELL NO
MINIMUM DEGREE OF ACCURACY: Submeter		47 -- 041 -- 05706
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV		STATE COUNTY PERMIT
WELL TYPE: <input type="checkbox"/> OIL <input checked="" type="checkbox"/> GAS <input type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> WASTE DISPOSAL (IF GAS) PRODUCTION: <input type="checkbox"/> STORAGE <input type="checkbox"/> DEEP <input checked="" type="checkbox"/> SHALLOW		
LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek		TH - West Milford
DISTRICT: Freemans Creek		QUADRANGLE: BH - Weston
SURFACE OWNER: HG Energy II Appalachia, LLC		COUNTY: <b>05/31/2024</b>
ROYALTY OWNER: Mary E. Post, et al, et al		ACREAGE: 61.50
LEASE NO: _____		ACREAGE: 145.00
PROPOSED WORK: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> CONVERT <input type="checkbox"/> DRILL DEEPER <input type="checkbox"/> FRACTURE OR STIMULATE <input type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/> OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,046' TVD <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 28,416' 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	