

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

API 47 - 041 - 05701 County Lewis District Freemans Creek
Quad West Milford Pad Name McDonald 1211 Field/Pool Name Kennedy
Farm name McDonald Well Number McDonald 1211 N-5H
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 4331776.87 Easting 545445.696
Landing Point of Curve Northing 4331986 Easting 545682
Bottom Hole Northing 4336480.4 Easting 544109.072

Elevation (ft) 1265.5' 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 02/10/2020 Date drilling commenced 11/17/2020 Date drilling ceased 4/21/2021
Date completion activities began 6/28/2021 Date completion activities ceased 9/04/2021
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) _____

Reviewed by:

APPROVED

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

API 47-041 - 05701 Farm name McDonald Well number McDonald 1211 N-5H

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"	1070	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"	2793	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5"	5.5	22625	New	23 lbs/ft P-11		Yes
Tubing							
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	Not Cemented						
Surface	Class A	2046	15.6	1.18	2414	Surface	8
Coal							
Intermediate 1	Class A	1513/398	15.4/15.9	1.24 / 1.17	1876 / 466	Surface	24
Intermediate 2	Class A	939	15.6	1.19	1117	Surface	8
Intermediate 3							
Production	Class A	308/440/98/3625	13.5/13.5/13.5/14.8	1.87/1.67/1.67/1.34	576/438/164/4857	Surface	8
Tubing							

Drillers TD (ft) 22677 Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 6485

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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PRODUCING FORMATION(S)	DEPTHS	
<u>Marcellus</u>	<u>6770 - 7062</u> TVD	<u>7030 - 22677</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3039 psi Bottom Hole _____ psi DURATION OF TEST 607 hrs

OPEN FLOW Gas 25248 mcfpd Oil _____ bpd NGL _____ bpd Water 696 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 Precision Drilling
Address 2640 Reach Road City Williamsport State PA Zip 17701

Logging Company Renegade Wireline Services
Address 191 Earnhardt Road City Hunker State PA Zip 15639

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

Stimulating Company NexTier
Address 8300 Route 19 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 01/25/2024

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

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HG Energy II Appalachia, LLC
McDonald 1211 N-5H
Lithology Report

Formation	Base MD	Top TVD	Base MD	Top 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	2063	2062	2076	2075
Gordon Stray sand	2076	2075	2083	2082
Gordon sand	2083	2082	2150	2149
5th sand	2349	2346	2394	2390
Bayard	2435	2431	2447	2443
Speechley	3055	3048	3072	3064
Balltown	3283	3272	3329	3316
Bradford	3740	3714	3834	3805
Benson	4397	4350	4408	4360
Rhinestreet	6022	5929	6289	6184
Cashaqua	6289	6184	6512	6393
Middlesex	6512	6393	6609	6477
West River	6609	6477	6728	6577
Burket	6728	6577	6775	6614
Tully	6775	6614	6909	6706
Hamilton	6909	6706	7030	6770
Marcellus shale	7030	6770	22677	7062

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HG Energy II Appalachia, LLC
McDonald 1211 N-5H
Perforation Record

Stage #	Perforation Date	Perforation from Depth	Perforation to Depth	Number of Perforations	Formation
Sleeve/1	9/8/2021	22599	22573	2	Marcellus
2	9/8/2021	22539	22371	28	Marcellus
3	9/17/2021	22343	22175	28	Marcellus
4	9/17/2021	22147	21979	28	Marcellus
5	9/17/2021	21951	21783	28	Marcellus
6	9/18/2021	21755	21587	28	Marcellus
7	9/18/2021	21559	21391	28	Marcellus
8	9/18/2021	21363	21195	28	Marcellus
9	9/19/2021	21167	20999	28	Marcellus
10	9/19/2021	20971	20803	28	Marcellus
11	9/19/2021	20775	20607	28	Marcellus
12	9/20/2021	20579	20411	28	Marcellus
13A	9/20/2021	20383	20215	28	Marcellus
13B	9/20/2021	20383	20186	56	Marcellus
14A	9/21/2021	20160	20004	28	Marcellus
14B	9/21/2021	20160	19972	56	Marcellus
15	9/21/2021	19945	19789	28	Marcellus
16A	9/21/2021	19763	19607	28	Marcellus
16B	9/22/2021	19763	19567	56	Marcellus
17	9/22/2021	19541	19401	32	Marcellus
18	9/22/2021	19376	19236	32	Marcellus
19	9/23/2021	19207	19039	32	Marcellus
20	9/23/2021	19011	18843	32	Marcellus
21	9/23/2021	18822	18647	32	Marcellus
22	9/23/2021	18620	18451	32	Marcellus
23	9/24/2021	18423	18255	32	Marcellus
24	9/24/2021	18227	18059	32	Marcellus
25	9/24/2021	18020	17863	32	Marcellus
26	9/25/2021	17835	17667	32	Marcellus
27	9/25/2021	17639	17471	32	Marcellus
28	9/25/2021	17443	17275	32	Marcellus
29	9/25/2021	17247	17079	32	Marcellus
30	9/26/2021	17051	16883	32	Marcellus
31	9/26/2021	16855	16687	32	Marcellus
32	9/27/2021	16659	16491	32	Marcellus
33	9/27/2021	16463	16295	32	Marcellus
34	9/27/2021	16267	16099	32	Marcellus
35	9/28/2021	16071	15903	32	Marcellus

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36	9/28/2021	15875	15707	32	Marcellus
37	9/28/2021	15679	15511	32	Marcellus
38	9/28/2021	15483	15315	32	Marcellus
39	9/29/2021	15287	15119	32	Marcellus
40	9/29/2021	15091	14923	32	Marcellus
41	9/29/2021	14895	14727	32	Marcellus
42	9/29/2021	14699	14531	32	Marcellus
43	9/30/2021	14503	14335	32	Marcellus
44	9/30/2021	14307	14139	32	Marcellus
45	9/30/2021	14111	13943	32	Marcellus
46	10/1/2021	13915	13747	32	Marcellus
47	10/1/2021	13719	13551	32	Marcellus
48	10/1/2021	13523	13355	32	Marcellus
49	10/1/2021	13327	13159	32	Marcellus
50	10/2/2021	13131	12963	32	Marcellus
51	10/2/2021	12935	12767	32	Marcellus
52	10/2/2021	12739	12571	32	Marcellus
53	10/2/2021	12543	12375	32	Marcellus
54	10/3/2021	12347	12179	32	Marcellus
55	10/3/2021	12151	11983	32	Marcellus
56	10/3/2021	11955	11787	32	Marcellus
57	10/3/2021	11759	11591	32	Marcellus
58	10/4/2021	11563	11395	32	Marcellus
59	10/4/2021	11367	11199	32	Marcellus
60	10/4/2021	11171	11003	32	Marcellus
61	10/5/2021	10975	10807	32	Marcellus
62	10/5/2021	10779	10611	32	Marcellus
63	10/5/2021	10583	10415	32	Marcellus
64	10/5/2021	10387	10219	32	Marcellus
65	10/6/2021	10191	10023	32	Marcellus
66	10/6/2021	9995	9827	32	Marcellus
67	10/6/2021	9799	9631	32	Marcellus
68	10/6/2021	9603	9435	32	Marcellus
69	10/7/2021	9407	9239	32	Marcellus
70	10/7/2021	9211	9043	32	Marcellus
71	10/7/2021	9015	8847	32	Marcellus
72	10/7/2021	8819	8651	32	Marcellus
73	10/8/2021	8623	8455	32	Marcellus
74	10/8/2021	8427	8259	32	Marcellus
75	10/8/2021	8231	8063	32	Marcellus
76	10/8/2021	8035	7867	32	Marcellus
77	10/9/2021	7839	7671	32	Marcellus
78	10/9/2021	7642	7474	32	Marcellus
79	10/9/2021	7444	7276	32	Marcellus
80	10/9/2021	7246	7106	32	Marcellus

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HG Energy II Appalachia, LLC

McDonald 1211 N-5H

Stimulation Record

Stage #	Date	Average Pump Rate (BPM)	Average Treatment Pressure (PSI)	Maximum Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve/1	9/8/2021	76.0	9391	12500	4036	259230	7,328
2	9/8/2021	83.0	9,158	6,118	4,544	701000	15,010
3	9/17/2021	86.0	9,731	6,010	5,718	641430	14,548
4	9/17/2021	81.0	9,408	6,106	5,121	701400	16,348
5	9/17/2021	84.0	9,492	6,113	5,378	703870	14,919
6	9/18/2021	85.0	9,364	6,131	5,254	702800	14,887
7	9/18/2021	90.0	9,771	6,258	5,002	702800	12,714
8	9/18/2021	88.6	10,140	6,120	4,551	629350	11,049
9	9/19/2021	89.0	9,967	6,114	4,514	572300	10,989
10	9/19/2021	86.0	10,186	6,015	4,837	704200	13,328
11	9/19/2021	90.0	10,055	5,983	5,228	709350	11,677
12	9/20/2021	90.0	9,972	5,873	5,164	710350	9,974
13A	9/20/2021	44.0	9,036	6,236	5,255	5000	3,651
13B	9/20/2021	85.3	9,817	6,289	4,569	665886	9,799
14A	9/21/2021	74.0	10,205	5,822	5,227	7203	2,862
14B	9/21/2021	81.0	9,570	5,806	4,527	704821	9,772
15	9/21/2021	91.8	10,092	6,044	4,969	628625	9,479
16A	9/21/2021	39.0	9,123	6,047	6,172	6762	2,694
16B	9/22/2021	86.6	9,521	6,038	4,628	713580	9,924
17	9/22/2021	84.0	9,818	6,287	5,138	705278	9,818
18	9/22/2021	91.6	10,086	6,573	4,940	705975	9,976
19	9/23/2021	87.9	9,492	6,224	5,122	696771	9,731
20	9/23/2021	95.0	9,976	5,697	5,072	705265	9,844
21	9/23/2021	83.0	10,015	6,318	5,067	705635	9,948
22	9/23/2021	93.8	10,048	5,615	5,027	648250	10,048
23	9/24/2021	92.0	10,085	6,141	5,275	705180	10,030
24	9/24/2021	98.0	10,175	6,267	5,005	705346	9,966
25	9/24/2021	98.6	10,378	6,315	5,050	701488	9,982
26	9/25/2021	97.7	10,159	5,699	4,953	713084	11,034
27	9/25/2021	94.0	10,218	5,983	4,760	706426	9,859
28	9/25/2021	100.0	10,356	6,589	5,119	705356	9,736
29	9/25/2021	101.1	10,308	6,375	6,012	706754	9,844
30	9/26/2021	78.0	9,889	6,350	4,247	705236	13,025
31	9/26/2021	96.1	9,863	5,401	4,600	705344	10,355
32	9/27/2021	102.3	9,901	5,714	4,991	705593	9,797
33	9/27/2021	100.0	10,417	6,258	5,038	705236	9,807
34	9/27/2021	94.9	10,326	6,358	4,860	707422	9,593
35	9/28/2021	104.6	10,161	6,138	5,353	707334	10,086
36	9/28/2021	104.2	10,389	6,663	4,956	706502	9,808
37	9/28/2021	92.0	10,507	6,046	5,756	530926	10,157
38	9/28/2021	89.5	9,898	6,263	4,826	705269	9,824
39	9/29/2021	94.1	9,660	6,445	5,391	705285	11,184
40	9/29/2021	99.0	10,090	6,583	6,073	705698	10,855
41	9/29/2021	94.0	9,765	6,500	4,854	705698	10,591
42	9/29/2021	86.7	9,727	5,899	5,658	705357	9,801
43	9/30/2021	99.0	10,205	6,189	5,513	705636	9,795
44	9/30/2021	100.0	10,235	6,181	5,330	705632	9,711
45	9/30/2021	106.1	10,623	5,987	5,388	705236	9,609
46	10/1/2021	102.0	10,066	6,532	5,434	705456	9,622
47	10/1/2021	92.0	9,354	6,268	5,281	704963	10,837
48	10/1/2021	105.0	10,245	6,637	5,171	705236	9,778
49	10/1/2021	100.1	9,339	6,861	5,094	705236	9,635
50	10/2/2021	93.4	8,974	6,462	6,311	705852	9,645
51	10/2/2021	93.0	9,140	6,754	5,308	704317	11,035
52	10/2/2021	107.0	9,976	6,333	5,368	705866	9,710
53	10/2/2021	101.0	9,577	6,161	5,964	705123	9,691
54	10/3/2021	90.3	9,235	6,252	5,201	705525	9,690
55	10/3/2021	90.0	9,338	6,361	5,520	705123	9,631
56	10/3/2021	99.9	10,063	6,515	5,493	705456	9,759
57	10/3/2021	94.7	9,691	7,427	4,852	679963	9,551
58	10/4/2021	102.0	9,407	6,349	5,648	680739	9,598
59	10/4/2021	103.0	10,007	6,721	5,224	680963	9,543
60	10/4/2021	102.0	9,989	6,397	5,253	680400	9,547

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61	10/5/2021	99.0	9,405	6,218	5,183	681000	9,534
62	10/5/2021	90.5	8,893	6,462	5,414	680010	9,610
63	10/5/2021	103.3	9,489	6,364	5,591	680260	9,500
64	10/5/2021	101.6	9,327	6,252	5,331	680200	9,486
65	10/6/2021	87.1	8,421	5,126	5,073	442200	8,218
66	10/6/2021	90.5	8,422	6,269	4,757	680320	10,515
67	10/6/2021	95.2	9,216	6,398	5,055	686030	9,622
68	10/6/2021	97.7	9,002	6,248	5,221	684000	9,608
69	10/7/2021	94.0	8,691	6,433	4,723	681500	9,550
70	10/7/2021	100.2	8,885	6,416	5,049	680400	9,566
71	10/7/2021	98.3	8,973	6,540	5,420	680140	11,126
72	10/7/2021	96.0	8,826	6,411	5,926	685200	9,592
73	10/8/2021	92.3	8,473	6,544	4,856	680800	10,020
74	10/8/2021	98.2	9,122	6,617	4,490	409730	9,064
75	10/8/2021	104.5	9,108	6,701	5,138	682050	10,651
76	10/8/2021	103.0	8,980	6,189	5,135	669200	9,471
77	10/9/2021	103.0	8,836	6,573	5,315	681650	9,490
78	10/9/2021	97.2	8,797	6,494	5,370	681460	9,398
79	10/9/2021	100.6	8,449	6,311	5,699	684590	9,622
80	10/9/2021	104.2	8,506	6,180	5,583	687500	9,818

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05/31/2024

8,839' to Bottom Hole

4,547' to Top Hole
BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00

LONGITUDE 80 - 27 - 30

11,933 to Top Hole

11,647 to Bottom Hole

HG Energy II Appalachia, LLC
Well No. McDonald 1211 N-5H
As-Drilled

McDonald
1211 N-5H
Bottom Hole

Page 1 of 2



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



Notes:
Well No. McDonald 1211 N-5H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,211,837.96'
E: 1,789,516.42'
Landing Point Coordinates
N: 14,212,525.53'
E: 1,790,290.69'
Bottom Hole Coordinates
N: 14,227,269.46'
E: 1,785,131.18'

Notes:
Well No. McDonald 1211 N-5H
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates
Latitude: 39°08'02.02"
Longitude: 80°28'27.72"
Bottom Hole coordinates
Latitude: 39°10'34.84"
Longitude: 80°29'22.29"
UTM Zone 17, NAD 1983
Top Hole Coordinates
N: 4,331,776.874m
E: 545,445.696m
Bottom Hole Coordinates
N: 4,336,480.404m
E: 544,109.072m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

GRID NORTH



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.

FILE NO: 79-36-12-U-F-18
DRAWING NO: McDonald 1211 N-5H 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 N-5H
API WELL NO
47 - 041 - 05701
STATE COUNTY PERMIT

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

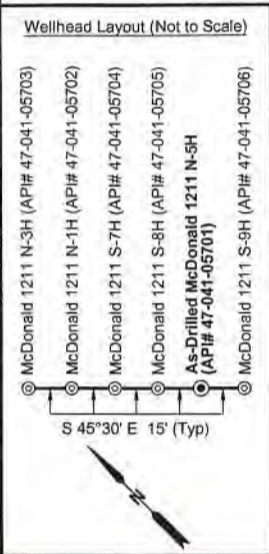
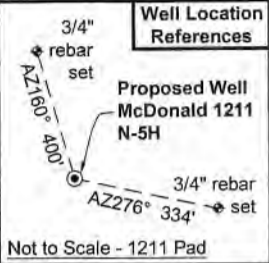
LOCATION: ELEVATION: 1,265.5' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: HG Energy II Appalachia, LLC
ROYALTY OWNER: Mary R. Post, et al, et al LEASE NO: ACREAGE: 145.00
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,677' MD 7,062' 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

Tag	Bearing	Dist.
L1	S 76°20' W	2,949.9'
L2	N 75°51' W	2,336.3'
L3	N 29°27' W	2,064.6'
L4	N 46°51' E	1,191.3'

RECEIVED
Office of Oil and Gas
JAN 29 2024
WV Department of Environmental Protection

QUADRANGLE: West Milford
COUNTY: 05/31/2024
ACREAGE: 61.50



Legend	
	Proposed gas well
	Well Reference, as noted
	Monument, as noted
	Existing Well, as noted
	Existing Plugged Well, as noted
	Digitized Well, as noted
	County Line
	Existing Road
	Surface boundary (approx.)
	Interior surface tracts (approx.)

ID	Lease
3	Rosa L. Brown, et al
4	Cora B. Allman, et al
5	Guinn Minter, et al
8	HG Energy II Appalachia, LLC
9	J.H. Neeley & et al
10	R.C. McDonald, et al
11	R.C. McDonald, et ux, et al
12	B.F. Thrash, et ux
14	George Paul Linn
15	HG Energy II Appalachia, LLC
16	Mary E. Post, et al
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18	Arthur Beeghley & et al
19	James Beeghley, et al
20	Guinn Minter, et al
24	C.M. Garrett, et al
28	William & Sue Gaston

No.	TM / Par	Owner	Bk / Pg	Ac.
1	7B / 10	HG Energy II Appalachia, LLC	730 / 677	61.50
2	7B / 22	HG Energy II Appalachia, LLC	730 / 677	73.68
3	7B / 23	Atlantic Coast Pipeline, LLC	700 / 779	167.89
4	7B / 9	Brincefield Family Trust	588 / 740	56.76
5	7B / 1	Mary Lou Curry Trust	681 / 626	98.12
6	6B / 40	Karen L. & J.C. Hayhurst	660 / 395	126.50
7	443 / 15	John C. & Donna R. Holden	1581 / 551	127.94
8	443 / 29.3	Ruth Burnside	1268 / 1168	1.43
9	443 / 29.1	Laurie D. & Marion D. Watts Jr.	1462 / 1312	0.70
10	443 / 29	Danny L. & Rebecca A. Stichel	1258 / 1130	39.01
11	443 / 29.2	Steve L. & Nadine J. Villers	1226 / 203	0.21
12	443 / 14	Steve L. & Nadine J. Villers	1180 / 529	102.03
13	423 / 28	Christopher M. Gillespie, et al	1479 / 475	88.00
14	423 / 27	James C. Garrett	1412 / 891	128.82
15	423 / 7	K. Wade & Mary M. Dickinson	1275 / 942	197.98
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22	403 / 25	Carol Daugherty Skidmore	W145/359	201.00
23	403 / 27	Mary V. Gabriel	W146/481	63.00
24	403 / 29	Mary V. Gabriel	W146/481	67.13

FILE NO: 79-36-12-U-F-18	<p>STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION OIL AND GAS DIVISION</p>	DATE: December 22 2021
DRAWING NO: McDonald 1211 N-5H As-Drilled		OPERATOR'S WELL NO. McDonald 1211 N-5H
SCALE: 1" = 2000'		API WELL NO
MINIMUM DEGREE OF ACCURACY: Submeter		47 - 041 - 05701
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV		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 QUADRANGLE: West Milford
DISTRICT: Freemans Creek COUNTY: 05/31/2024

SURFACE OWNER: HG Energy II Appalachia, LLC ACREAGE: 61.50

ROYALTY OWNER: Mary R. 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) _____ 7,062' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,677' 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

8,839' to Bottom Hole

4,547' to Top Hole

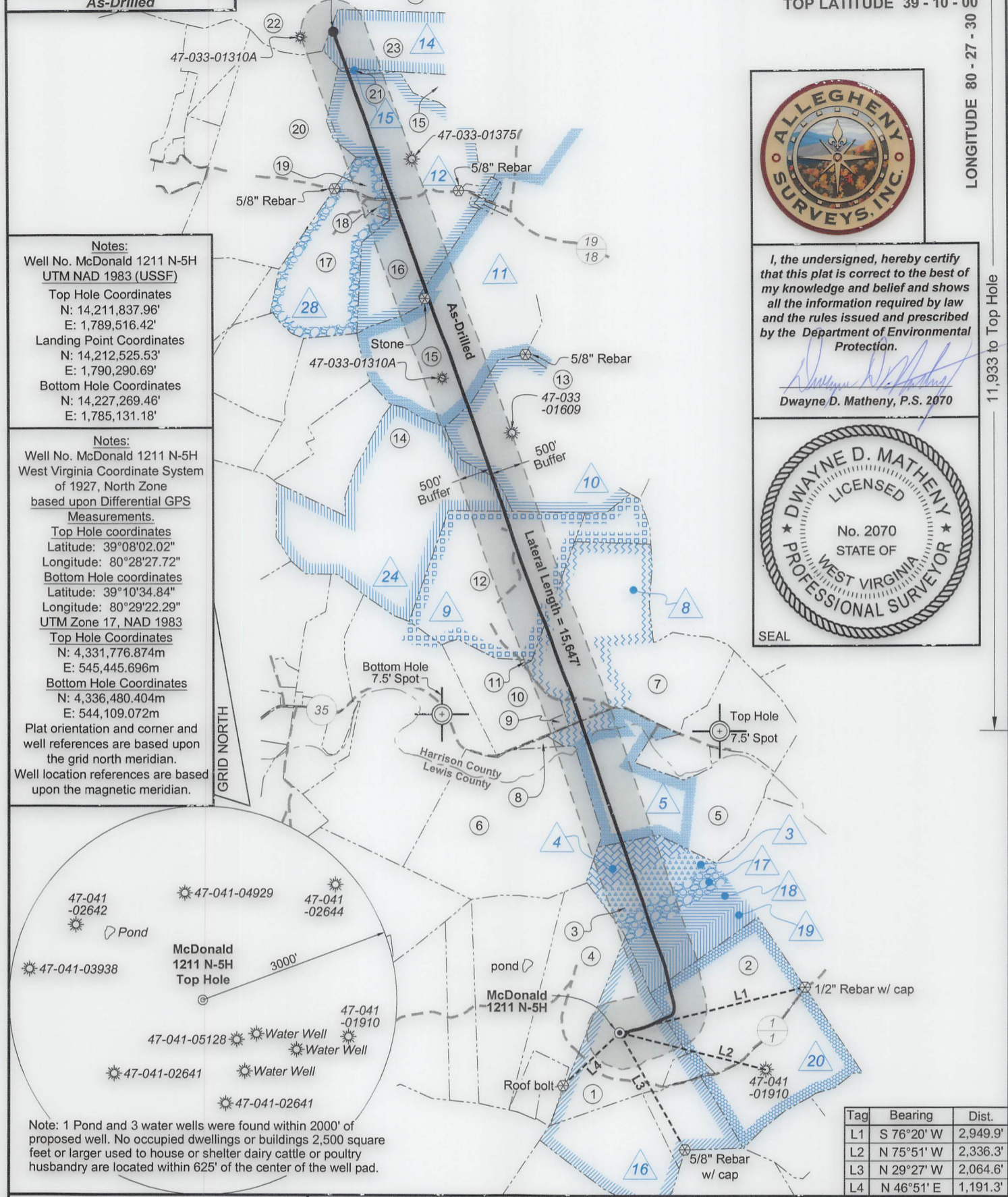
BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00

LONGITUDE 80 - 27 - 30

HG Energy II Appalachia, LLC
Well No. McDonald 1211 N-5H
As-Drilled

McDonald
1211 N-5H
Bottom Hole

Page 1 of 2



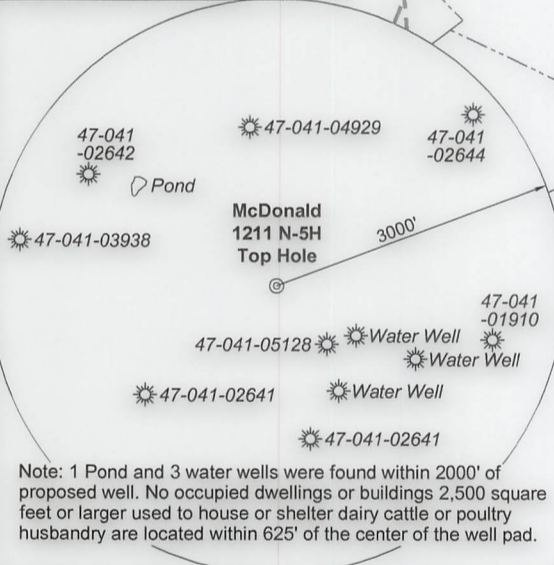
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

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



Notes:
Well No. McDonald 1211 N-5H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,211,837.96'
E: 1,789,516.42'
Landing Point Coordinates
N: 14,212,525.53'
E: 1,790,290.69'
Bottom Hole Coordinates
N: 14,227,269.46'
E: 1,785,131.18'

Notes:
Well No. McDonald 1211 N-5H
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates
Latitude: 39°08'02.02"
Longitude: 80°28'27.72"
Bottom Hole coordinates
Latitude: 39°10'34.84"
Longitude: 80°29'22.29"
UTM Zone 17, NAD 1983
Top Hole Coordinates
N: 4,331,776.874m
E: 545,445.696m
Bottom Hole Coordinates
N: 4,336,480.404m
E: 544,109.072m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.



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.

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L1	S 76°20' W	2,949.9'
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

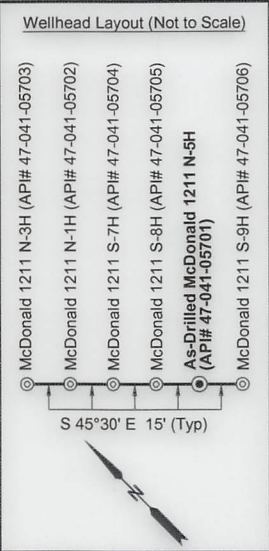
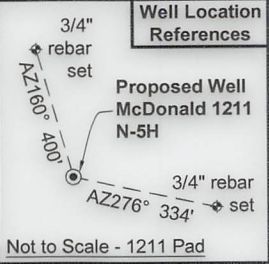
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47 - 041 - 05701
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,062' TVD 22,677' 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



Legend

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- ⊕ Well Reference, as noted
- ⊗ Monument, as noted
- ⊛ Existing Well, as noted
- ⊙ Existing Plugged Well, as noted
- ⊙ Digitized Well, as noted
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