

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

API 47-041-05702 County Lewis District Freemans Creek
Quad West Milford Pad Name McDonald 1211 Field/Pool Name Kennedy
Farm name McDonald Well Number 1211 N1H
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 4331786.49 Easting 545435.918
Landing Point of Curve Northing 4331687 Easting 544847
Bottom Hole Northing 4336554.58 Easting 543105.482

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 10/16/2019 Date drilling commenced 11/19/2020 Date drilling ceased 5/2/2021
Date completion activities began 6/21/2021 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

Samuel Reynolds

05/31/2024
5-9-24

API 47-041 - 05702 Farm name McDonald Well number 1211 N1H

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"	1074	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	2028	New	68 lbs/ft		Yes
Intermediate 2	12.25"	9.625"	2762	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5	5.5	24413	New	23 lbs/ft P-11		No
Tubing			??	New			
Packer type and depth set							

Comment Details Production Circulation lost when displacement began, pumps were staged up from 3.0 bpm to 5.0 bpm and 100 bbls into displacement flow returned, started as a trickle but steadily increased up to 3.1% at end of displacement, no cement to surface, 5.5 bbls returned to truck once floats held

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	1963	15.6	1.18	2316		8
Coal							
Intermediate 1	Class A	1526/461	15.4/15.9	1.24/1.17	1892/539		24
Intermediate 2	Class A	837	15.6	1.19	996		8
Intermediate 3							
Production	Class A	837/905/3580	13.5/13.5/14.8	1.82/1.67/1.34	1523/1511/4797	??	8
Tubing							

Drillers TD (ft) 24444 Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) _____

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____
 20" casing: Centralizer placed on the shoe joint and every other joint to surface
 13.375" casing: centralizer run every joint to 20" casing then placed every 3 joints to surface
 9.625" casing: Centralizers run every other joint to 13.375" casing then placed every 3 joints to surface
 5.5" casing: Centralizer run every joint to top of curve (KOP) then centralizers placed every 3 joints to surface

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS JAN 29 2024

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

HG Energy II Appalachia, LLC
McDonald 1211 N-1H
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	2062	2062	2075	2075
Gordon Stray sand	2075	2075	2082	2082
Gordon sand	2140	2140	2149	2149
5th sand	2350	2348	2393	2390
Bayard	2419	2416	2445	2443
Speechley	3053	3043	3090	3078
Balltown	3275	3252	3324	3296
Bradford	3795	3716	3880	3793
Benson	4526	4369	4563	4401
Rhinestreet	6308	5950	6640	6245
Cashaqua	6640	6245	6889	6458
Middlesex	6889	6458	6993	6544
West River	6993	6544	7121	6649
Burket	7121	6649	7177	6693
Tully	7177	6693	7321	6790
Hamilton	7321	6790	7454	6857
Marcellus shale	7454	6857	24444	7215

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HG Energy II Appalachia, LLC

McDonald 1211 N-1H

Perforation Record

Stage #	Perforation Date	Perforation From Depth	Perforation to Depth	Number of Perforations	Formation
Sleeve/1	6/30/2021	24365	24342	2	Marcellus
2	6/30/2021	24272	24140	28	Marcellus
3	7/1/2021	24112	23944	28	Marcellus
4	7/1/2021	23916	23748	28	Marcellus
5	7/2/2021	23720	23552	28	Marcellus
6	7/2/2021	23524	23356	28	Marcellus
7	7/2/2021	23328	23160	28	Marcellus
8	7/3/2021	23132	22964	28	Marcellus
9	7/3/2021	22936	22768	28	Marcellus
10	7/4/2021	22740	22572	28	Marcellus
11	7/4/2021	22544	22376	28	Marcellus
12	7/4/2021	22348	22180	28	Marcellus
13	7/5/2021	22152	21984	28	Marcellus
14	7/5/2021	21956	21788	28	Marcellus
15	7/5/2021	21760	21592	28	Marcellus
16	7/6/2021	21564	21396	28	Marcellus
17	7/6/2021	21368	21200	28	Marcellus
18	7/7/2021	21172	21004	28	Marcellus
19	7/7/2021	20976	20808	28	Marcellus
20	7/7/2021	20780	20612	28	Marcellus
21	7/7/2021	20584	20416	28	Marcellus
22	7/8/2021	20388	20220	28	Marcellus
23	7/8/2021	20192	20024	28	Marcellus
24	7/9/2021	19996	19828	28	Marcellus
25	7/9/2021	19800	19632	28	Marcellus
26	7/9/2021	19604	19436	28	Marcellus
27	7/9/2021	19408	19240	28	Marcellus
28	7/10/2021	19212	19044	28	Marcellus
29	7/10/2021	19016	18848	28	Marcellus
30	7/10/2021	18820	18652	28	Marcellus
31	7/11/2021	18624	18456	28	Marcellus
32	7/11/2021	18428	18260	28	Marcellus
33	7/11/2021	18232	18064	28	Marcellus
34	7/12/2021	18036	17868	28	Marcellus
35	7/12/2021	17840	17672	28	Marcellus
36	7/12/2021	17644	17476	28	Marcellus
37	7/13/2021	17448	17280	28	Marcellus
38	7/13/2021	17252	17084	28	Marcellus
39	7/14/2021	17056	16888	28	Marcellus
40	7/14/2021	16860	16692	28	Marcellus
41	7/14/2021	16664	16496	28	Marcellus

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42	7/15/2021	16468	16300	28	Marcellus
43	7/15/2021	16272	16104	28	Marcellus
44	7/15/2021	16076	15908	28	Marcellus
45	7/16/2021	15880	15712	28	Marcellus
46	7/16/2021	15684	15516	28	Marcellus
47	7/16/2021	15488	15320	28	Marcellus
48	7/16/2021	15292	15124	28	Marcellus
49	7/17/2021	15096	14928	28	Marcellus
50	7/17/2021	14900	14732	28	Marcellus
51	7/17/2021	14704	14536	28	Marcellus
52	7/17/2021	14508	14340	28	Marcellus
53	7/18/2021	14312	14144	28	Marcellus
54	7/18/2021	14116	13948	28	Marcellus
55	7/18/2021	13920	13752	28	Marcellus
56	7/18/2021	13724	13556	28	Marcellus
57	7/19/2021	13528	13360	28	Marcellus
58	7/19/2021	13332	13164	28	Marcellus
59	7/19/2021	13136	12968	28	Marcellus
60	7/19/2021	12940	12772	28	Marcellus
61	7/20/2021	12744	12576	28	Marcellus
62	7/20/2021	12548	12380	28	Marcellus
63	7/20/2021	12353	12185	28	Marcellus
64	7/20/2021	12159	11991	28	Marcellus
65	7/21/2021	11965	11797	28	Marcellus
66	7/21/2021	11771	11603	28	Marcellus
67	7/21/2021	11577	11409	28	Marcellus
68	7/22/2021	11383	11215	28	Marcellus
69	7/22/2021	11189	11021	28	Marcellus
70	7/22/2021	10995	10827	28	Marcellus
71	7/22/2021	10801	10633	28	Marcellus
72	7/22/2021	10607	10439	28	Marcellus
73	7/23/2021	10413	10245	28	Marcellus
74	7/23/2021	10219	10051	28	Marcellus
75	7/23/2021	10025	9857	28	Marcellus
76	7/24/2021	9831	9663	28	Marcellus
77	7/24/2021	9637	9469	28	Marcellus
78	7/24/2021	9443	9275	28	Marcellus
79	7/24/2021	9249	9081	28	Marcellus
80	7/25/2021	9055	8887	28	Marcellus
81	7/25/2021	8861	8693	28	Marcellus
82	7/25/2021	8667	8499	28	Marcellus
83	7/26/2021	8473	8305	28	Marcellus
84	7/26/2021	8279	8111	28	Marcellus
85	7/26/2021	8085	7917	28	Marcellus
86	7/26/2021	7891	7723	28	Marcellus
87	7/27/2021	7697	7529	28	Marcellus

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HG Energy II Appalachia, LLC
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Stimulation Record

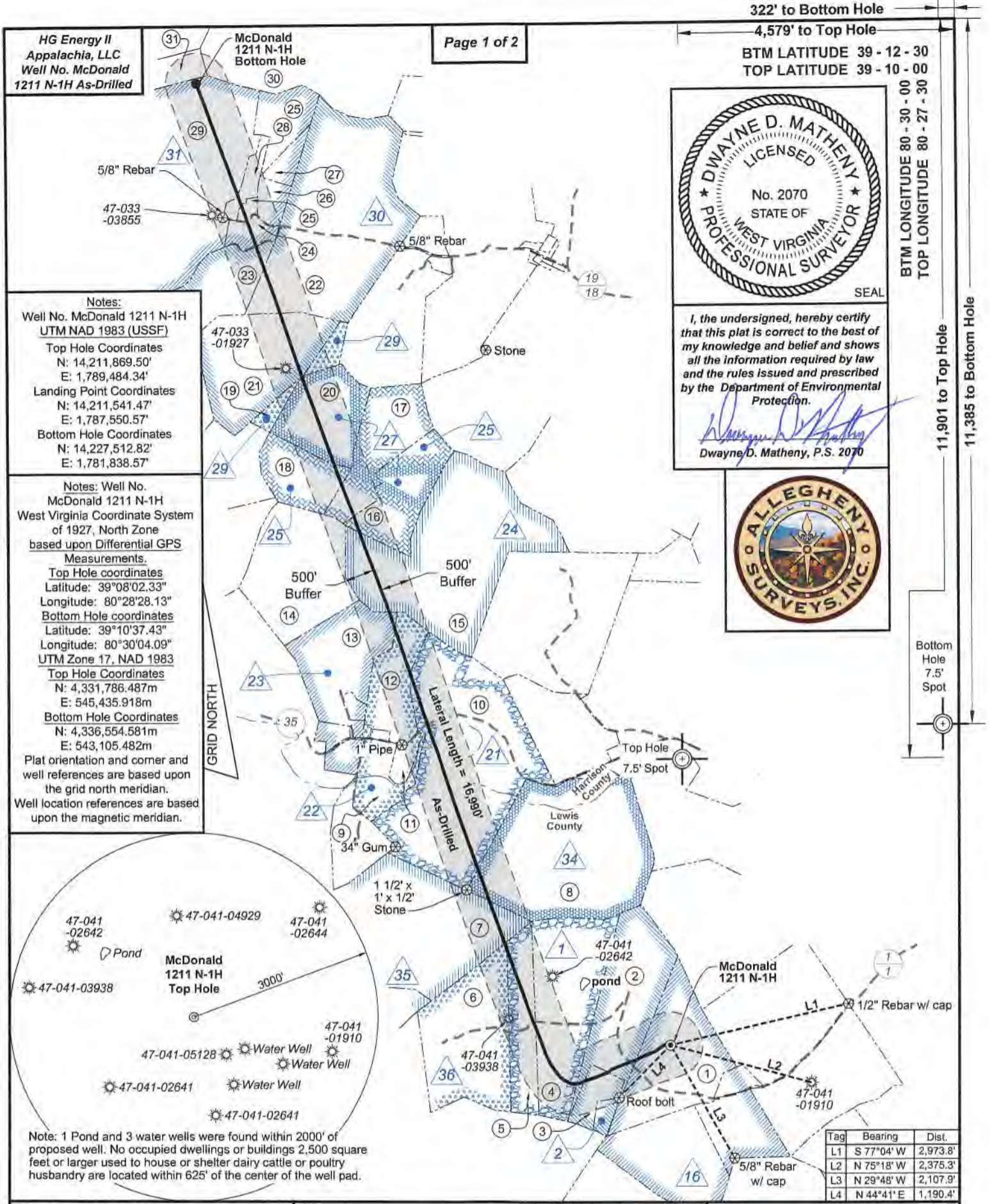
Stage #	Date	Ave pump rate (BPM)	Average Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve/1	6/30/2021	63.0	10675	6895	4274	1116900	3,311
2	6/30/2021	87.3	9,770	6,829	6,789	1361800	14,912
3	7/1/2021	81.0	9,518	6,101	4,344	1044500	15,534
4	7/1/2021	89.5	9,901	6,001	4,839	1084000	14,698
5	7/2/2021	94.2	10,278	5,830	4,955	1078500	14,837
6	7/2/2021	90.0	9,738	5,680	5,111	1079100	12,605
7	7/2/2021	92.4	10,093	6,625	4,795	1142000	12,552
8	7/3/2021	93.0	9,973	5,955	5,345	1130000	11,904
9	7/3/2021	97.0	10,148	6,536	5,431	1196700	11,775
10	7/4/2021	90.0	9,946	6,404	5,309	1171300	9,434
11	7/4/2021	96.0	10,073	5,993	4,986	1097900	9,930
12	7/4/2021	96.8	10,269	6,079	4,836	1091500	9,879
13	7/5/2021	97.5	10,362	5,531	5,159	1069000	9,919
14	7/5/2021	100.0	10,068	5,554	4,742	1029600	9,920
15	7/5/2021	97.2	10,192	5,755	5,087	1084200	10,019
16	7/6/2021	96.0	10,202	5,549	4,686	1023500	11,809
17	7/6/2021	97.3	10,352	5,802	4,740	1054200	10,013
18	7/7/2021	97.3	10,230	5,812	5,420	1123200	10,637
19	7/7/2021	90.0	10,316	5,638	5,345	1098300	11,013
20	7/7/2021	97.0	9,980	5,629	5,518	1114700	9,372
21	7/7/2021	96.7	9,991	5,401	5,050	1045100	10,079
22	7/8/2021	96.7	10,118	5,638	5,380	1101800	10,047
23	7/8/2021	100.0	10,152	5,895	5,170	1106500	10,438
24	7/9/2021	95.2	9,885	6,257	5,460	1171700	9,069
25	7/9/2021	94.6	10,264	6,253	4,760	1101300	8,676
26	7/9/2021	94.9	9,671	5,831	4,375	1020600	11,238
27	7/9/2021	96.0	9,593	5,844	4,980	1082400	9,943
28	7/10/2021	96.0	9,712	5,815	4,844	1065900	11,117
29	7/10/2021	96.0	9,698	6,045	5,229	1127400	9,986
30	7/10/2021	95.8	9,970	5,793	5,060	1085300	11,672
31	7/11/2021	95.3	9,977	6,109	4,820	1092900	9,870
32	7/11/2021	95.0	10,377	5,406	4,291	969700	9,433
33	7/11/2021	99.6	9,542	5,670	5,320	1099000	11,362
34	7/12/2021	99.5	9,657	5,685	5,270	1095500	9,859
35	7/12/2021	99.0	9,814	5,672	4,690	1036200	11,441
36	7/12/2021	98.9	9,728	5,953	5,300	1125300	9,965
37	7/13/2021	98.5	9,784	5,972	5,720	1169200	11,448
38	7/13/2021	99.0	9,770	5,729	4,436	1016500	10,817
39	7/14/2021	98.2	9,625	5,770	4,920	1069000	10,982
40	7/14/2021	98.0	9,591	5,649	5,069	1071800	11,328
41	7/14/2021	98.6	9,323	5,836	5,120	1095600	11,197
42	7/15/2021	99.5	9,294	5,640	4,820	1046000	11,240
43	7/15/2021	97.0	9,440	5,991	4,504	1049500	10,811
44	7/15/2021	98.6	9,533	6,280	4,840	1112000	11,136
45	7/16/2021	99.8	9,476	6,180	4,780	1096000	11,100
46	7/16/2021	99.0	9,357	6,141	4,995	1113600	9,984
47	7/16/2021	100.0	9,127	5,746	4,795	1054100	9,960
48	7/16/2021	100.1	9,377	5,939	5,265	1120400	9,880
49	7/17/2021	100.5	9,133	5,830	5,260	1109000	9,898
50	7/17/2021	99.0	9,057	5,509	4,991	1050000	9,871
51	7/17/2021	97.0	9,089	5,530	4,588	1011800	10,157
52	7/17/2021	100.0	9,266	5,561	5,200	1076100	9,345
53	7/18/2021	99.2	9,323	5,413	4,680	1009300	10,891
54	7/18/2021	97.0	8,950	5,744	5,137	1088100	9,353
55	7/18/2021	98.0	8,767	5,592	5,058	1065000	9,994
56	7/18/2021	100.8	8,925	5,405	5,690	1109500	9,948
57	7/19/2021	99.3	8,966	5,488	5,570	1105800	9,815
58	7/19/2021	99.0	8,727	5,608	5,504	1111200	9,786
59	7/19/2021	100.0	8,627	5,599	5,013	1061200	9,878

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60	7/19/2021	100.4	8,141	3,905	5,510	941500	9,792
61	7/20/2021	100.5	8,744	5,151	4,920	1007100	9,759
62	7/20/2021	98.4	8,784	5,789	4,640	1042900	10,718
63	7/20/2021	99.5	8,438	5,524	4,714	1023800	9,713
64	7/20/2021	99.7	8,480	5,118	4,946	1006400	9,891
65	7/21/2021	99.4	8,728	6,125	5,400	1152500	9,689
66	7/21/2021	98.5	8,351	4,400	5,967	1036700	10,795
67	7/21/2021	99.3	8,839	4,043	4,676	871900	10,847
68	7/22/2021	99.6	8,244	3,982	5,280	926200	9,838
69	7/22/2021	97.7	8,543	5,709	5,120	1082900	10,499
70	7/22/2021	100.7	8,324	5,685	5,111	1079600	9,904
71	7/22/2021	100.4	7,896	3,573	5,631	920400	9,744
72	7/22/2021	99.7	8,235	5,552	5,009	1056100	9,755
73	7/23/2021	98.7	7,812	4,242	5,290	953200	9,920
74	7/23/2021	97.3	7,637	4,426	5,030	945600	9,602
75	7/23/2021	99.9	8,031	6,405	5,700	1210500	9,731
76	7/24/2021	100.3	8,077	5,848	5,350	1119800	9,758
77	7/24/2021	99.1	8,003	3,913	5,774	968700	9,819
78	7/24/2021	99.0	8,365	6,733	5,603	1233600	9,724
79	7/24/2021	99.6	8,057	6,224	5,080	1130400	9,407
80	7/25/2021	98.5	8,182	4,493	4,989	948200	9,845
81	7/25/2021	98.9	8,373	6,777	5,829	1260600	10,529
82	7/25/2021	100.2	8,145	6,206	5,460	1166600	9,806
83	7/26/2021	100.7	8,212	6,462	4,950	1141200	9,675
84	7/26/2021	98.4	7,872	6,165	5,242	1140700	10,484
85	7/26/2021	98.5	8,057	6,662	5,083	1174500	9,941
86	7/26/2021	99.3	7,996	6,590	5,165	1175500	10,176
87	7/27/2021	100.2	7,726	5,531	5,060	1059100	9,743

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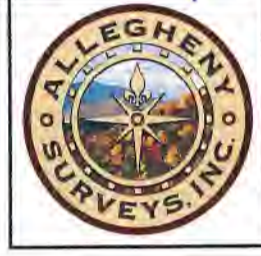
HG Energy II
Appalachia, LLC
Well No. McDonald
1211 N-1H As-Drilled

322' to Bottom Hole
4,579' to Top Hole
BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00



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

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



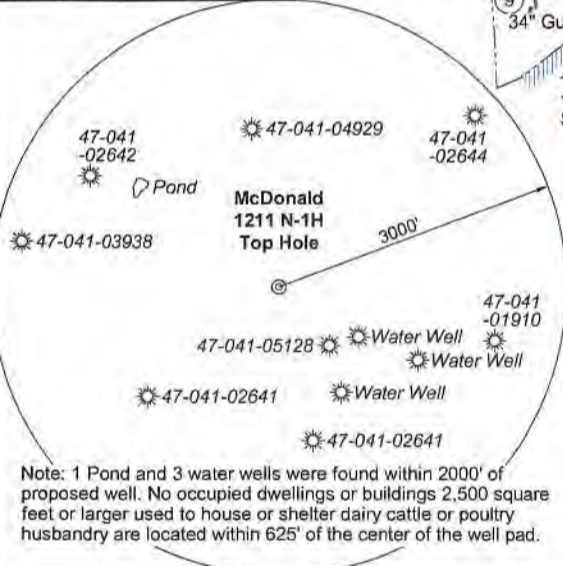
BTM LONGITUDE 80 - 30 - 00
TOP LONGITUDE 80 - 27 - 30

11,901 to Top Hole

11,385 to Bottom Hole

Notes:
Well No. McDonald 1211 N-1H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,211,869.50'
E: 1,789,484.34'
Landing Point Coordinates
N: 14,211,541.47'
E: 1,787,550.57'
Bottom Hole Coordinates
N: 14,227,512.82'
E: 1,781,838.57'

Notes: Well No.
McDonald 1211 N-1H
West Virginia Coordinate System
of 1927, North Zone
based upon Differential GPS
Measurements.
Top Hole coordinates
Latitude: 39°08'02.33"
Longitude: 80°28'28.13"
Bottom Hole coordinates
Latitude: 39°10'37.43"
Longitude: 80°30'04.09"
UTM Zone 17, NAD 1983
Top Hole Coordinates
N: 4,331,786.487m
E: 545,435.918m
Bottom Hole Coordinates
N: 4,336,554.581m
E: 543,105.482m
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.

Tag	Bearing	Dist.
L1	S 77°04' W	2,973.8'
L2	N 75°18' W	2,375.3'
L3	N 29°48' W	2,107.9'
L4	N 44°41' E	1,190.4'

FILE NO: 79-36-12-U-F-18
DRAWING NO: McDonald 1211 N-1H 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

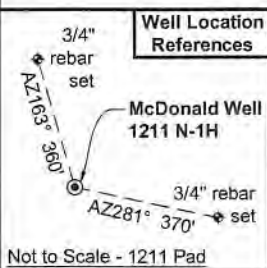
DATE: January 6 2022
OPERATOR'S WELL NO. McDonald 1211 N-1H
API WELL NO
47 - 041 - 05702
STATE COUNTY PERMIT

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

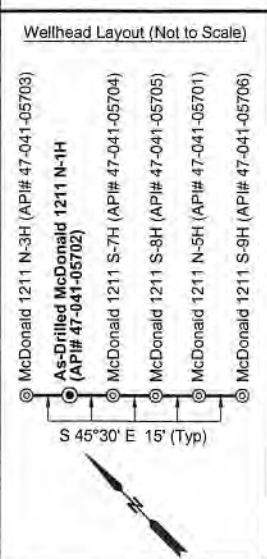
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled Plat 7,215' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,444' MD

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

- ⊙ 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.)



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22	Mary Robinson, et al
23	C.C. Ash
24	C.M. Garrett, et al
25	Worthy R. Lowman
27	Worthy R. Lowman
29	E. Rider, et al
30	D.M. Cole, et al
31	Jesse B. Knight, et al
34	L.W. Davis, et al
35	Henry L. Frashuer, et al
36	Henry L. Frashuer, et al

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	6B / 53	Brincefield Family Trust	588 / 740	10.51
4	6B / 41	Brincefield Family Trust	588 / 740	71.619
5	6B / 42	Brincefield Family Trust	588 / 740	28.00
6	6B / 43	Brincefield Family Trust	588 / 740	69.36
7	6B / 37	Robert E. Brincefield Jr. & Terrilynne Brincefield Trust	578 / 630	96.14
8	6B / 40	Karen L. & J.C. Hayhurst	660 / 395	126.50
9	6B / 49	Vernon D. Hughes	680 / 313	19.45
10	443 / 28	Mary Lou Curry, et al	1539 / 769	139.97
11	443 / 27.1	Paul V. & Ina R. Hughes	1287 / 666	5.35
12	443 / 12.2	Donna L. Davis	F104 / 1	27.92
13	443 / 11	Donna L. Davis	1375 / 729	51.08
14	423 / 26	Terence L. Washburn	1117 / 549	65.00
15	423 / 27	James C. Garrett	1412 / 891	128.82
16	423 / 22	James C. Garrett	1412 / 891	35.58
17	423 / 21	Jefferson Lambert & Linda J. Ashcraft	1322 / 689	39.77
18	423 / 16	Jefferson Lambert & Linda J. Ashcraft	1322 / 689	26.86
19	423 / 19	Daniel M. Rider, Trustee of the Ernest A. Rider Family Protection Trust	1669 / 1100	9.36
20	423 / 17	Jefferson Lambert & Linda J. Ashcraft	1322 / 689	39.11
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23	423 / 3	Daniel M. Rider, Trustee of the Ernest A. Rider Family Protection Trust	1669 / 1100	32.51
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25	423 / 4	James E. Dills (L/E)	1596 / 158	21.32
26	423 / 4.2	HG Energy II Appalachia, LLC	1614 / 1198	7.43
27	423 / 4.4	HG Energy II Appalachia, LLC	1614 / 1198	6.95
28	423 / 4.3	Helen & Earl M. Jenkins	1537 / 119	7.50
29	423 / 1	Paul H. Dickerson Jr., et al	W176 / 905	135.76
30	403 / 25	Carol D. Skidmore (L/E)	1622 / 1302	201.00
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FILE NO: 79-36-12-U-F-18
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SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV



DATE: January 6 2022
OPERATOR'S WELL NO. McDonald 1211 N-1H
API WELL NO
47 - 041 - 05702
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: Boone
SURFACE OWNER: HG Energy II Appalachia, LLC ACREAGE: 61.50
ROYALTY OWNER: Mary R. Post, et al, et al LEASE NO: ACREAGE: 145.00

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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,444' MD

WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
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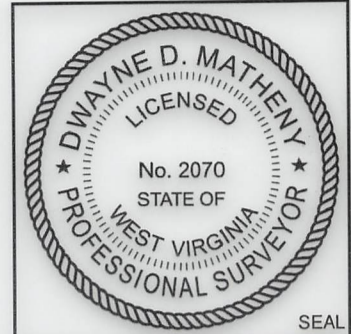
322' to Bottom Hole

4,579' to Top Hole

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

BTM LONGITUDE 80 - 30 - 00
TOP LONGITUDE 80 - 27 - 30

HG Energy II
Appalachia, LLC
Well No. McDonald
1211 N-1H As-Drilled



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

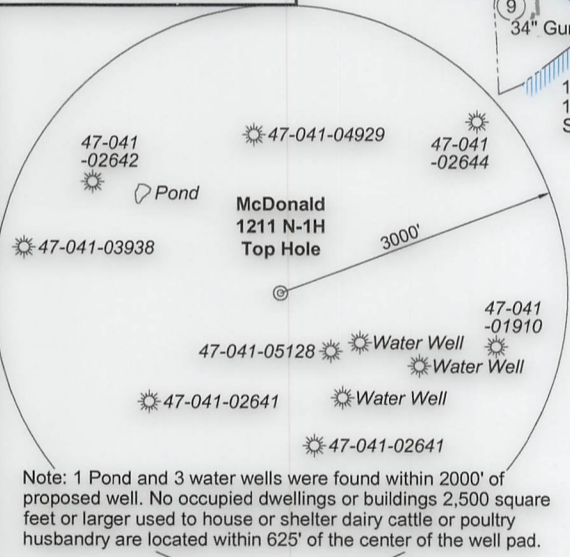


11,901 to Top Hole
11,385 to Bottom Hole



Notes:
Well No. McDonald 1211 N-1H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,211,869.50'
E: 1,789,484.34'
Landing Point Coordinates
N: 14,211,541.47'
E: 1,787,550.57'
Bottom Hole Coordinates
N: 14,227,512.82'
E: 1,781,838.57'

Notes: Well No. McDonald 1211 N-1H
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates
Latitude: 39°08'02.33"
Longitude: 80°28'28.13"
Bottom Hole coordinates
Latitude: 39°10'37.43"
Longitude: 80°30'04.09"
UTM Zone 17, NAD 1983
Top Hole Coordinates
N: 4,331,786.487m
E: 545,435.918m
Bottom Hole Coordinates
N: 4,336,554.581m
E: 543,105.482m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.



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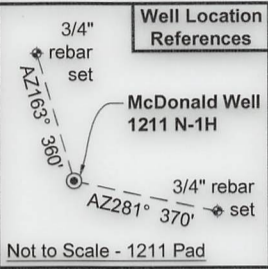
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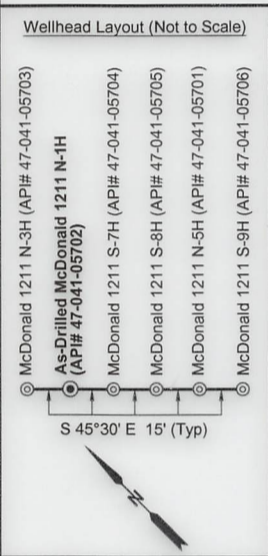
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Tag	Bearing	Dist.
L1	S 77°04' W	2,973.8'
L2	N 75°18' W	2,375.3'
L3	N 29°48' W	2,107.9'
L4	N 44°41' E	1,190.4'



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