

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

API 47 - 041 - 05703 County Lewis District Freemans Creek
Quad West Milford Pad Name McDonald 1211 Field/Pool Name Kennedy
Farm name McDonald Well Number McDonald 1211 N-3H
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 4331789.6 Easting 545432.659
Landing Point of Curve Northing 4331837 Easting 545273
Bottom Hole Northing 4336518.1 Easting 543601.585

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

Handwritten signature

05/31/2024
5-9-24

API 47-041 - 05703 Farm name McDonald Well number McDonald 1211 N-3H

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"	1063	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"	2752	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5"	5.5	23323	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	1979	15.6	1.18	2335	Surface	8
Coal							
Intermediate 1	Class A	1516/450	15.4/15.9	1.24 / 1.17	1880 / 526	Surface	24
Intermediate 2	Class A	847	15.6	1.19	1008	Surface	8
Intermediate 3							
Production	Class A	863/3594	13.5/14.8	1.67/1.34	1441/4816	Surface	8
Tubing							

Drillers TD (ft) 23351 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

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

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WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

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

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API 47- 041 - 05703 Farm name McDonald Well number McDonald 1211 N-3H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
		See Attached			

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
			See Attached					

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Please insert additional pages as applicable.

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API 47- 041 - 05703 Farm name McDonald Well number McDonald 1211 N-3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6819 - 7151</u> TVD	<u>7019 - 23351</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 2837 psi Bottom Hole _____ psi DURATION OF TEST 607 hrs

OPEN FLOW Gas 28056 mcfpd Oil _____ bpd NGL _____ bpd Water 657 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	
	0		0		
					** See Attached **

Please insert additional pages as applicable.

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

Logging Company Renegade Wireline Services
Address 191 Earnhardt 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 January 25, 2024

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HG Energy II Appalachia, LLC
McDonald 1211 N-3H
Perforation Record

Stage #	Perforation Date	Perforation from Depth	Perforation to Depth	Number of Perforations	Formation
Sleeve/1	6/30/2021	23272	23247	2	Marcellus
2	6/30/2021	23213	23045	28	Marcellus
3	7/1/2021	23017	22849	28	Marcellus
4	7/4/2021	22821	22653	28	Marcellus
5	7/9/2021	22625	22457	28	Marcellus
6	7/9/2021	22429	22261	28	Marcellus
7	7/13/2021	22233	22065	28	Marcellus
8	7/13/2021	22037	21869	28	Marcellus
9	7/14/2021	21841	21673	28	Marcellus
10	7/15/2021	21645	21477	28	Marcellus
11	7/27/2021	21449	21281	28	Marcellus
12	7/27/2021	21253	21085	28	Marcellus
13	7/27/2021	21057	20889	28	Marcellus
14	7/28/2021	20861	20693	28	Marcellus
15	7/28/2021	20665	20497	28	Marcellus
16	7/28/2021	20469	20301	28	Marcellus
17	7/28/2021	20273	20105	28	Marcellus
18	7/29/2021	20077	19909	28	Marcellus
19	7/29/2021	19881	19713	28	Marcellus
20	7/29/2021	19685	19517	28	Marcellus
21	7/30/2021	19489	19321	28	Marcellus
22	7/30/2021	19293	19125	28	Marcellus
23	7/30/2021	19097	18929	28	Marcellus
24	7/31/2021	18901	18733	28	Marcellus
25	8/1/2021	18705	18537	28	Marcellus
26	8/2/2021	18509	18341	28	Marcellus
27	8/2/2021	18313	18145	28	Marcellus
28	8/2/2021	18117	17949	28	Marcellus
29	8/2/2021	17921	17753	28	Marcellus
30	8/2/2021	17725	17557	28	Marcellus
31	8/3/2021	17529	17361	28	Marcellus
32	8/3/2021	17333	17165	28	Marcellus
33	8/3/2021	17137	16969	28	Marcellus
34	8/3/2021	16941	16773	28	Marcellus
35	8/3/2021	16745	16577	28	Marcellus
36	8/3/2021	16549	16381	28	Marcellus
37	8/4/2021	16353	16185	28	Marcellus

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38	8/5/2021	16157	15989	28	Marcellus
39	8/5/2021	15961	15793	28	Marcellus
40	8/5/2021	15765	15597	28	Marcellus
41A	8/15/2021	15569	15401	28	Marcellus
41B	8/16/2021	15569	15401	28	Marcellus
42	8/16/2021	15373	15205	28	Marcellus
43	8/17/2021	15177	15009	28	Marcellus
44	8/17/2021	14981	14813	28	Marcellus
45	8/18/2021	14785	14617	28	Marcellus
46	8/18/2021	14588	14420	28	Marcellus
47	8/19/2021	14390	14222	28	Marcellus
48	8/19/2021	14192	14024	28	Marcellus
49	8/20/2021	13994	13826	28	Marcellus
50	8/20/2021	13796	13628	28	Marcellus
51	8/20/2021	13598	13430	28	Marcellus
52	8/21/2021	13400	13232	28	Marcellus
53	8/21/2021	13202	13034	28	Marcellus
54	8/21/2021	13004	12836	28	Marcellus
55	8/22/2021	12806	12638	28	Marcellus
56	8/23/2021	12608	12440	28	Marcellus
57	8/23/2021	12410	12242	28	Marcellus
58	8/24/2021	12212	12044	28	Marcellus
59	8/25/2021	12014	11846	28	Marcellus
60	8/25/2021	11816	11648	28	Marcellus
61	8/26/2021	11618	11450	28	Marcellus
62	8/26/2021	11420	11252	28	Marcellus
63	8/26/2021	11222	11054	28	Marcellus
64	8/27/2021	11024	10856	28	Marcellus
65	8/27/2021	10826	10658	28	Marcellus
66	8/27/2021	10628	10460	28	Marcellus
67	8/28/2021	10430	10262	28	Marcellus
68	8/28/2021	10232	10064	24	Marcellus
69	8/28/2021	10034	9866	28	Marcellus
70	8/29/2021	9836	9668	28	Marcellus
71	8/29/2021	9638	9470	28	Marcellus
72	8/29/2021	9440	9272	28	Marcellus
73	8/30/2021	9242	9074	28	Marcellus
74	8/30/2021	9044	8876	28	Marcellus
75	8/30/2021	8846	8678	28	Marcellus
76	8/31/2021	8648	8480	28	Marcellus
77	8/31/2021	8450	8282	28	Marcellus
78	8/31/2021	8252	8084	28	Marcellus
79	9/1/2021	8054	7886	28	Marcellus
80	9/1/2021	7856	7688	28	Marcellus
81	9/1/2021	7658	7490	28	Marcellus
82	9/1/2021	7460	7292	28	Marcellus
83	9/2/2021	7262	7094	28	Marcellus

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HG Energy II Appalachia, LLC
McDonald 1211 N-3H
Stimulation Record

Stage #	Date	Ave pump rate (BPM)	Ave Treatment Press (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve/1	6/30/2021	82.6	9336	12500	3704	272300	7,856
2	6/30/2021	92.2	9,681	6,283	6,300	699600	14,811
3	7/1/2021	95.6	9,889	5,686	4,725	702900	14,667
4	7/4/2021	94.0	10,061	5,741	5,300	703100	12,818
5	7/9/2021	91.0	9,927	5,524	4,851	705372	12,627
6	7/9/2021	91.0	9,784	5,688	5,436	705706	11,648
7	7/13/2021	90.6	9,955	6,266	5,070	351760	8,823
8	7/13/2021	90.0	9,723	6,026	5,030	480910	10,147
9	7/14/2021	92.0	9,720	5,951	5,211	708620	11,828
10	7/15/2021	96.0	10,152	5,958	4,700	677960	9,832
11	7/27/2021	92.0	9,610	5,285	5,285	628600	11,288
12	7/27/2021	92.0	9,704	6,400	5,382	705640	11,780
13	7/27/2021	88.4	9,839	6,541	4,863	704570	12,314
14	7/28/2021	91.3	9,743	6,302	4,354	704940	12,049
15	7/28/2021	96.0	9,960	6,120	6,013	700570	9,813
16	7/28/2021	97.0	9,824	6,281	5,981	705590	9,897
17	7/28/2021	94.2	9,847	6,067	5,542	633254	9,408
18	7/29/2021	96.0	9,898	6,107	4,987	705724	11,100
19	7/29/2021	99.0	10,132	6,003	4,989	652320	10,811
20	7/29/2021	95.3	9,559	6,134	4,740	705200	13,725
21	7/30/2021	96.0	9,929	5,921	5,048	705920	11,444
22	7/30/2021	96.0	9,666	5,864	5,837	705800	10,736
23	7/30/2021	96.4	9,363	6,128	5,024	705540	9,800
24	7/31/2021	95.1	9,574	5,868	5,533	633020	9,495
25	8/1/2021	98.3	9,584	5,462	4,816	704950	9,980
26	8/2/2021	97.0	9,707	6,351	5,134	705360	9,842
27	8/2/2021	98.0	9,361	5,636	5,907	704790	9,830
28	8/2/2021	100.0	9,175	5,958	5,117	705690	10,055
29	8/2/2021	101.0	9,389	6,254	5,677	705270	9,965
30	8/2/2021	100.3	9,564	6,066	5,353	705300	9,860
31	8/3/2021	99.7	9,573	5,772	4,617	705780	9,909
32	8/3/2021	98.4	9,378	6,193	5,230	652340	9,576
33	8/3/2021	100.0	9,432	5,774	4,989	652920	9,664
34	8/3/2021	100.0	9,459	6,043	5,513	705540	9,792
35	8/3/2021	100.0	9,341	6,034	5,303	645560	9,558
36	8/3/2021	98.6	9,306	5,885	5,050	706700	9,942
37	8/4/2021	92.0	9,588	6,122	5,410	705400	9,839

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38	8/5/2021	93.0	9,208	5,482	4,760	706420	10,956
39	8/5/2021	98.0	9,950	5,649	4,870	705140	9,857
40	8/5/2021	98.6	9,255	6,101	5,250	706100	10,044
41A	8/15/2021	62.0	8,180	4,864	5,091	0	20,015
41B	8/16/2021	70.0	10,723	N/A	6,786	32000	5,448
42	8/16/2021	80.0	9,241	6,590	5,437	635000	14,767
43	8/17/2021	94.0	9,446	5,200	5,512	705000	11,539
44	8/17/2021	96.0	9,441	6,049	5,227	700000	9,911
45	8/18/2021	91.0	9,400	5,347	4,847	700000	13,891
46	8/18/2021	96.0	8,754	4,864	5,027	705500	9,927
47	8/19/2021	91.4	9,343	5,967	5,428	705620	13,233
48	8/19/2021	97.0	9,289	5,892	4,709	710000	10,969
49	8/20/2021	94.0	8,935	5,594	4,900	703600	11,847
50	8/20/2021	98.0	9,521	5,730	5,269	705500	9,998
51	8/20/2021	100.5	8,894	5,167	5,578	704700	13,608
52	8/21/2021	95.3	9,638	5,322	4,772	673650	9,586
53	8/21/2021	99.1	9,620	5,800	5,136	705560	9,634
54	8/21/2021	99.4	9,589	5,685	4,973	653070	10,543
55	8/22/2021	94.8	9,468	6,068	4,646	411260	8,025
56	8/23/2021	108.5	9,619	5,794	5,048	709510	9,783
57	8/23/2021	108.0	9,785	5,956	3,829	704914	9,675
58	8/24/2021	91.5	9,758	5,797	5,355	427440	9,624
59	8/25/2021	104.7	9,906	5,823	4,543	711400	9,873
60	8/25/2021	100.4	9,391	5,993	4,850	443260	10,262
61	8/26/2021	95.2	9,020	5,729	4,463	704498	10,861
62	8/26/2021	100.1	9,210	6,264	5,407	712988	9,748
63	8/26/2021	93.5	9,349	6,678	5,312	453960	8,739
64	8/27/2021	98.3	9,242	6,416	5,058	713060	9,876
65	8/27/2021	105.1	9,304	5,317	4,813	721643	9,595
66	8/27/2021	101.0	8,999	6,469	5,456	719605	9,836
67	8/28/2021	95.8	8,522	6,451	5,186	719680	9,825
68	8/28/2021	101.6	9,405	6,558	5,127	729611	10,963
69	8/28/2021	95.0	9,113	6,248	5,671	627388	10,005
70	8/29/2021	89.3	9,294	6,144	5,657	533758	10,427
71	8/29/2021	106.3	9,434	6,112	4,823	720975	9,847
72	8/29/2021	92.9	8,309	5,885	4,818	686120	10,402
73	8/30/2021	106.3	9,344	6,687	5,508	725994	9,911
74	8/30/2021	103.4	9,296	5,807	5,096	720480	10,846
75	8/30/2021	101.5	8,872	6,192	4,756	740090	10,914
76	8/31/2021	101.8	8,873	5,929	5,178	740140	11,446
77	8/31/2021	105.3	9,154	6,198	4,586	738279	11,025
78	8/31/2021	105.4	8,988	6,329	5,251	740480	10,707
79	9/1/2021	98.6	8,377	6,424	5,061	729440	9,889
80	9/1/2021	108.9	9,321	5,888	4,983	744688	9,951
81	9/1/2021	105.6	9,216	6,256	4,850	743412	9,882
82	9/1/2021	104.5	8,614	6,702	4,710	582650	9,214
83	9/2/2021	107.9	9,168	7,310	5,168	748016	10,261

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HG Energy II Appalachia, LLC
McDonald 1211 N-3H
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	2063	2062	2076	2075
Gordon Stray sand	2076	2075	2150	2149
Gordon sand	2150	2149	2247	2245
5th sand	2349	2348	2395	2394
Bayard	2433	2331	2446	2443
Speechley	3041	3031	3058	3056
Balltown	3255	3253	3298	3296
Bradford	3718	3716	3792	3790
Benson	4362	4359	3669	4366
Rhinestreet	5990	5956	6254	6215
Cashaqua	6254	6215	6483	6434
Middlesex	6483	6434	6578	6520
West River	6578	6520	6693	6619
Burket	6693	6619	6739	6656
Tully	6739	6656	6883	6753
Hamilton	6883	6753	7019	6819
Marcellus shale	7019	6819	23351	7151

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10,504' to Bottom Hole

4,589' to Top Hole

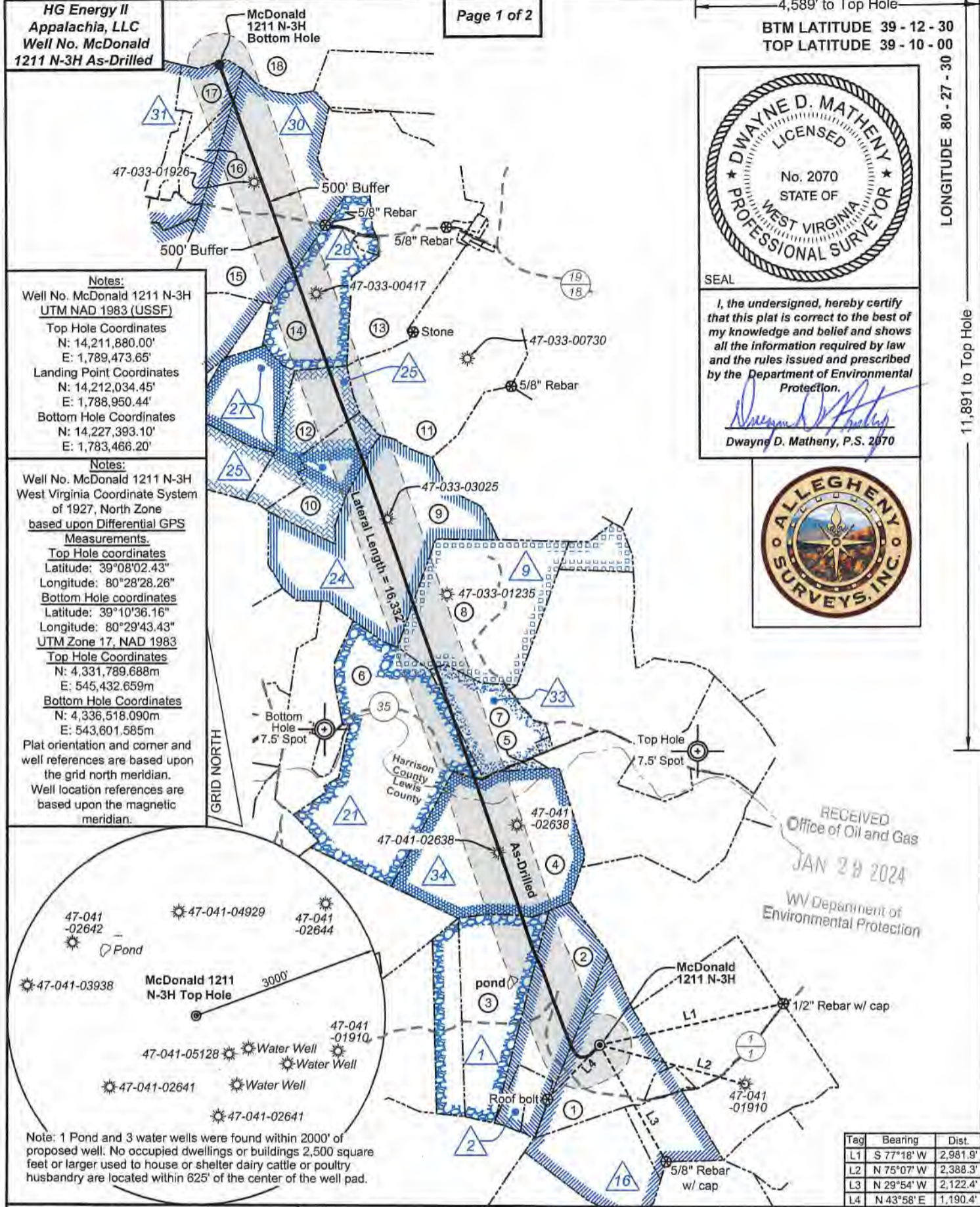
BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00

LONGITUDE 80 - 27 - 30

11,891 to Top Hole

11,514 to Bottom Hole

HG Energy II
Appalachia, LLC
Well No. McDonald
1211 N-3H As-Drilled



SEAL

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



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Notes:
Well No. McDonald 1211 N-3H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,211,880.00'
E: 1,789,473.65'
Landing Point Coordinates
N: 14,212,034.45'
E: 1,788,950.44'
Bottom Hole Coordinates
N: 14,227,393.10'
E: 1,783,466.20'

Notes:
Well No. McDonald 1211 N-3H
West Virginia Coordinate System
of 1927, North Zone
based upon Differential GPS
Measurements.
Top Hole coordinates
Latitude: 39°08'02.43"
Longitude: 80°28'28.26"
Bottom Hole coordinates
Latitude: 39°10'36.16"
Longitude: 80°29'43.43"
UTM Zone 17, NAD 1983
Top Hole Coordinates
N: 4,331,789.688m
E: 545,432.659m
Bottom Hole Coordinates
N: 4,336,518.090m
E: 543,601.585m
Plat orientation and corner and
well references are based upon
the grid north meridian.
Well location references are
based upon the magnetic
meridian.



Tag	Bearing	Dist.
L1	S 77°18' W	2,981.9'
L2	N 75°07' W	2,388.3'
L3	N 29°54' W	2,122.4'
L4	N 43°58' E	1,190.4'

FILE NO: 79-36-12-U-F-18
DRAWING NO: McDonald 1211 N-3H 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 20 22
OPERATOR'S WELL NO. McDonald 1211 N-3H
API WELL NO
47 - 041 - 05703
STATE COUNTY PERMIT

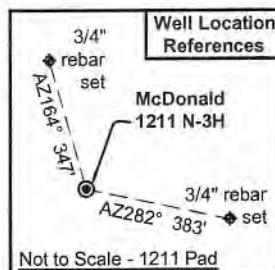
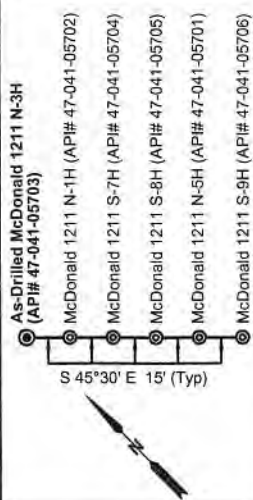
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,351' MD
7,151' 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



Wellhead Layout (Not to Scale)



Not to Scale - 1211 Pad

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.)

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

ID	Lease
1	J.L. Post, et al
2	HG Energy II Appalachia, LLC
9	J.H. Neeley & et al
16	Mary E. Post, et al
21	A.W. Davis
24	C.M. Garrett, et al
25	Worthy R. Lowman
27	Worthy R. Lowman
28	William & Sue Gaston
30	D.M. Cole, et al
31	Jesse B. Knight, et al
33	Guinn Minter, et al
34	L.W. Davis, et al

	No.	TM / Par	Owner	Bk / Pg	Ac.
Lewis County	1	7B / 10	HG Energy II Appalachia, LLC	730 / 677	61.50
	2	7B / 9	Brincefield Family Trust	588 / 740	56.76
	3	6B / 41	Brincefield Family Trust	588 / 740	71.619
	4	6B / 40	Karen L. & J.C. Hayhurst	660 / 395	126.50
Harrison County	5	443 / 29.3	Ruth Burnside	1268 / 1168	1.426
	6	443 / 28	Mary Lou Curry, et al	1539 / 769	139.97
	7	443 / 29	Danny L. & Rebecca A. Stickel	1258 / 1130	39.01
	8	443 / 14	Steve L. & Nadine J. Villers	1180 / 529	102.03
	9	423 / 27	James C. Garrett	1412 / 891	128.82
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	11	423 / 7	K. Wade & Mary M. Dickinson	1275 / 492	197.98
	12	423 / 21	Jefferson Lambert & Linda J. Ashcraft	1322 / 689	39.77
	13	423 / 6	K. Wade & Mary M. Dickinson	1275 / 492	127.39
	14	423 / 20	Jefferson Lambert & Linda J. Ashcraft	1320 / 409	56.47
	15	423 / 5	Ernest Aubrey Rider	1136 / 136	137.48
	16	423 / 4.4	CNX Gas Co. LLC	1537 / 119	6.95
	17	423 / 4	James E. Dills	1596 / 158	21.32
	18	403 / 25	Carol Daugherty Skidmore	W145 / 359	201.00

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



DATE: January 6 2022
OPERATOR'S WELL NO. McDonald 1211 N-3H
API WELL NO
47 — 041 — 05703
STATE COUNTY PERMIT

FILE NO: 79-36-12-U-F-18
DRAWING NO: McDonald 1211 N-3H As-Drilled
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

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 7,151' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,351' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

DESIGNATED AGENT: Diane C. White

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10,504' to Bottom Hole

4,589' to Top Hole

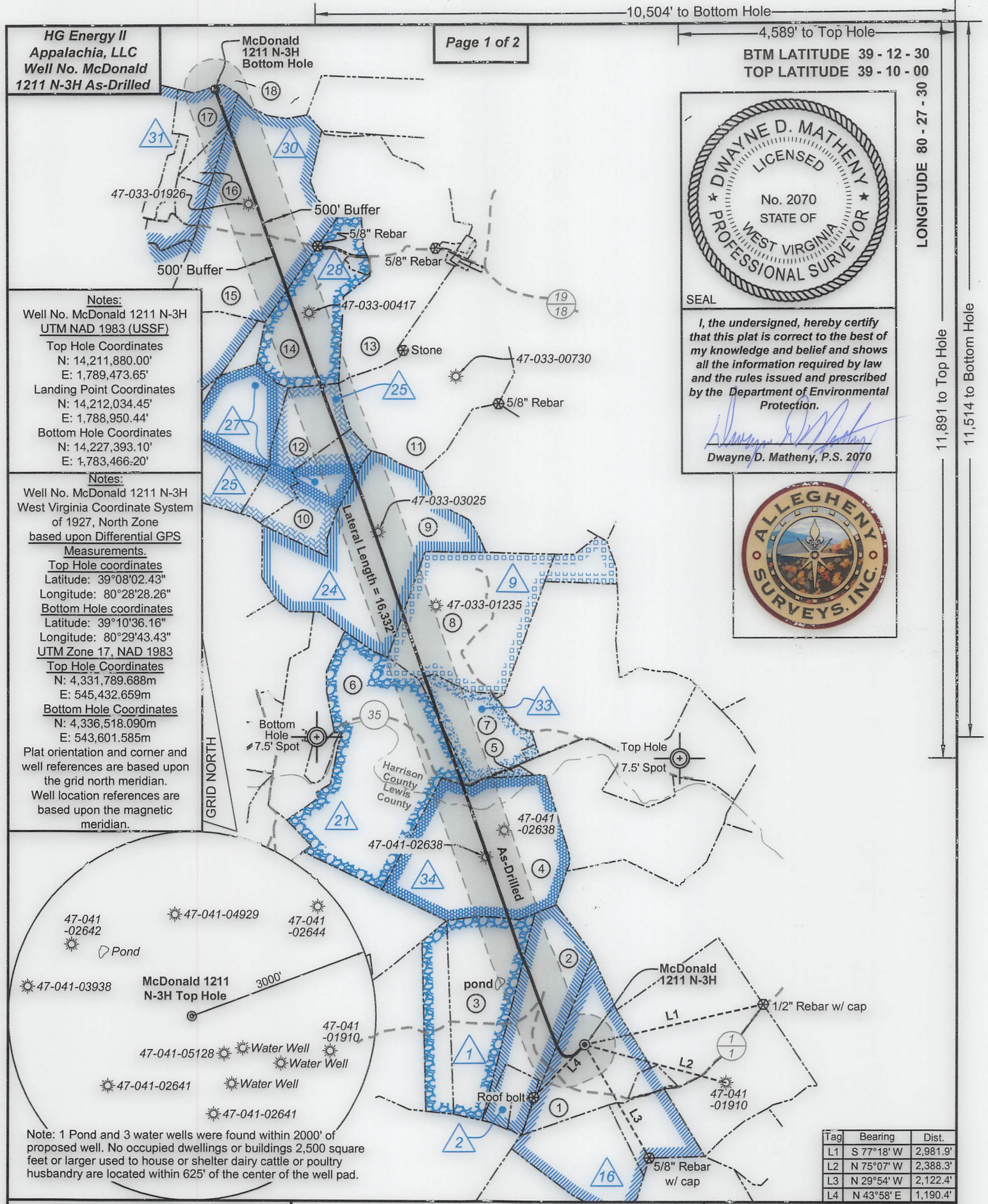
BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00

LONGITUDE 80 - 27 - 30

11,891' to Top Hole

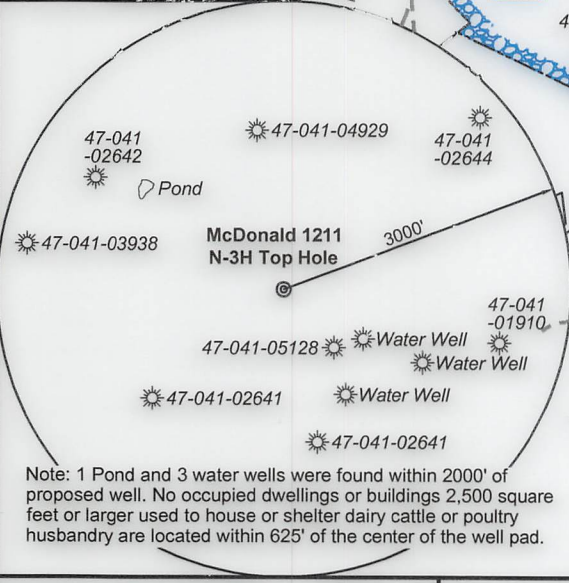
11,514' to Bottom Hole

HG Energy II
Appalachia, LLC
Well No. McDonald
1211 N-3H As-Drilled



Notes:
Well No. McDonald 1211 N-3H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,211,880.00'
E: 1,789,473.65'
Landing Point Coordinates
N: 14,212,034.45'
E: 1,788,950.44'
Bottom Hole Coordinates
N: 14,227,393.10'
E: 1,783,466.20'

Notes:
Well No. McDonald 1211 N-3H
West Virginia Coordinate System
of 1927, North Zone
based upon Differential GPS
Measurements.
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Longitude: 80°28'28.26"
Bottom Hole coordinates
Latitude: 39°10'36.16"
Longitude: 80°29'43.43"
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Plat orientation and corner and
well references are based upon
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Well location references are
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SEAL
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



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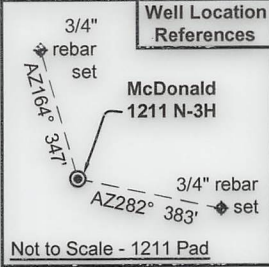
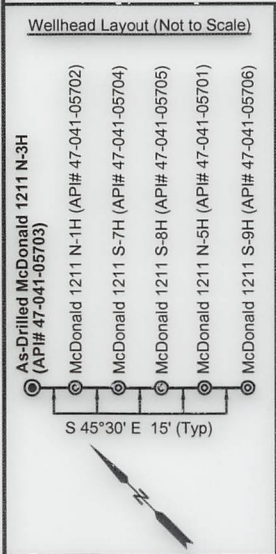
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: January 6 2022
OPERATOR'S WELL NO. McDonald 1211 N-3H
API WELL NO
47 - 041 - 05703
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 7,151' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 23,351' 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
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- Digitized Well, as noted
- County Line
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- Surface boundary (approx.)
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