

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

API 47 - 033 - 05970 County Harrison District Grant Union
Quad West Milford Pad Name Neel 1207 Field/Pool Name Fink Kennedy
Farm name Neel Well Number 1207 N3H
Operator (as registered with the OOG) HG Energy II Appalachia, LLC
Address 5260 Dupont Rd. City Parkersburg State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4333846.534 Easting 551617.356
Landing Point of Curve Northing 4333720.000 Easting 551235.200
Bottom Hole Northing 4338681.019 Easting 549469.990

Elevation (ft) 1344 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Air/ OBM

KCL, Barite, Lime, CaCL, base oil, clay, sulfatone, safevert FLG, safevert WA

Date permit issued 11/20/2019 Date drilling commenced 1/6/2020 Date drilling ceased 11/19/2020
Date completion activities began 12/10/2020 Date completion activities ceased 3/14/2021
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 80, 638 Open mine(s) (Y/N) depths N
Salt water depth(s) ft N/A Void(s) encountered (Y/N) depths N
Coal depth(s) ft 430, 514, 538, 915, 1046 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Received 6/10/23

Reviewed by:

SDW
09/16/2022

API 47-033 - 05970 Farm name Neel Well number 1207 N3H

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		No
Surface	26"	20"	1095	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	2194	New	64 lbs/ft		Yes
Intermediate 2	12.25"	9.625"	3003	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5"	5.5"	24834	New	23 lbs/ft P-11		Yes
Tubing				New			
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	1925	15.6	1.18	2272	surface	8
Coal							
Intermediate 1	Class A	1866/702	16.0/16.4	1.16/1.12	2165/786	surface	24
Intermediate 2	Class A	1038	15.6	1.2	1245.6	surface	8
Intermediate 3							
Production	Class A	893//377/3289	13.5/14.8/14.8	1.82/1.46/1.34	1625/550/4407	surface	8
Tubing							

Drillers TD (ft) 24858 Loggers TD (ft) _____

Deepest formation penetrated Marcellus Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) 5900'

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 _____

HG Energy II Appalachia, LLC

Neel 1207 N3H

Perforation Record

Stage #	Perf Date	Perf from depth	Perf to depth	Number of perfs	Formation
Sleeve / 1	12/19/2020	24778	24750	N/A	Marcellus
2	12/20/2020	24,716	24,548	28	Marcellus
3	12/21/2020	24,520	24,352	28	Marcellus
4	12/21/2020	24,324	24,156	28	Marcellus
5	12/22/2020	24,128	23,960	28	Marcellus
6	12/24/2020	23,932	23,764	28	Marcellus
7	12/26/2020	23,736	23,568	28	Marcellus
8	12/29/2020	23,540	23,372	28	Marcellus
9	12/29/2020	23,344	23,176	28	Marcellus
10	12/31/2020	23,148	22,980	28	Marcellus
11	12/31/2020	22,952	22,784	28	Marcellus
12	1/1/2021	22,756	22,588	28	Marcellus
13	1/2/2021	22,560	22,392	28	Marcellus
14	1/3/2021	22,364	22,196	28	Marcellus
15	1/3/2021	22,168	22,000	28	Marcellus
16	1/4/2021	21,972	21,804	28	Marcellus
17	1/5/2021	21,776	21,608	28	Marcellus
18	1/6/2021	21,580	21,412	28	Marcellus
19	1/6/2021	21,384	21,216	28	Marcellus
20	1/7/2021	21,188	21,020	28	Marcellus
21	1/7/2021	20,992	20,824	30	Marcellus
22	1/8/2021	20,796	20,628	30	Marcellus
23	1/9/2021	20,600	20,432	30	Marcellus
24	1/10/2021	20,404	20,236	30	Marcellus
25	1/10/2021	20,208	20,040	30	Marcellus
26	1/12/2021	20,012	19,844	30	Marcellus
27	1/16/2021	19,816	19,648	30	Marcellus
28	1/16/2021	19,620	19,452	30	Marcellus
29	1/18/2021	19,424	19,256	28	Marcellus
30	1/19/2021	19,228	19,060	28	Marcellus
31	1/19/2021	19,032	18,864	28	Marcellus
32	1/20/2021	18,836	18,668	28	Marcellus
33	1/20/2021	18,640	18,472	28	Marcellus
34	1/20/2021	18,444	18,276	28	Marcellus
35	1/21/2021	18,248	18,080	28	Marcellus
36	1/21/2021	18,052	17,884	28	Marcellus
37	1/22/2021	17,856	17,688	28	Marcellus
38	1/23/2021	17,660	17,492	28	Marcellus
39	1/23/2021	17,464	17,296	28	Marcellus
40	1/28/2021	17,268	17,100	28	Marcellus
41	1/29/2021	17,072	16,904	28	Marcellus
42	1/29/2021	16,876	16,708	28	Marcellus
43	1/30/2021	16,680	16,512	28	Marcellus
44	1/30/2021	16,484	16,316	28	Marcellus
45	1/30/2021	16,288	16,120	28	Marcellus
46	1/31/2021	16,092	15,924	28	Marcellus
47	1/31/2021	15,896	15,728	28	Marcellus
48	2/1/2021	15,700	15,532	28	Marcellus
49	2/1/2021	15,504	15,336	28	Marcellus

09/16/2022

50	2/2/2021	15,308	15,140	28	Marcellus
51	2/2/2021	15,112	14,944	28	Marcellus
52	2/2/2021	14,916	14,748	28	Marcellus
53	2/3/2021	14,720	14,552	28	Marcellus
54	2/3/2021	14,524	14,356	28	Marcellus
55	2/3/2021	14,328	14,160	28	Marcellus
56	2/4/2021	14,132	13,964	28	Marcellus
57	2/4/2021	13,936	13,768	28	Marcellus
58	2/4/2021	13,740	13,572	28	Marcellus
59	2/5/2021	13,544	13,376	28	Marcellus
60	2/5/2021	13,348	13,180	28	Marcellus
61	2/5/2021	13,152	12,984	27	Marcellus
62	2/5/2021	12,956	12,788	27	Marcellus
63	2/6/2021	12,760	12,592	27	Marcellus
64	2/6/2021	12,564	12,396	27	Marcellus
65	2/6/2021	12368	12200	27	Marcellus
66	2/6/2021	12172	12004	27	Marcellus
67	2/7/2021	11976	12200	27	Marcellus
68	2/7/2021	11780	11612	21	Marcellus
69	2/7/2021	11584	11416	21	Marcellus
70	2/8/2021	11388	11220	21	Marcellus
71	2/8/2021	11192	11024	21	Marcellus
72	2/8/2021	10996	10828	21	Marcellus
73	2/8/2021	10800	10632	27	Marcellus
74	2/9/2021	10604	10436	27	Marcellus
75	2/9/2021	10408	10240	27	Marcellus
76	2/9/2021	10212	10044	27	Marcellus
77	2/9/2021	10016	9848	27	Marcellus
78	2/10/2021	9819	9653	28	Marcellus
79	2/10/2021	9625	9459	28	Marcellus
80	2/11/2021	9431	9265	28	Marcellus
81	2/11/2021	9237	9071	28	Marcellus
82	2/12/2021	9043	8877	28	Marcellus
83	2/12/2021	8851	8683	28	Marcellus
84	2/12/2021	8657	8489	28	Marcellus
85	2/12/2021	8463	8295	28	Marcellus
86	2/13/2021	8269	8101	28	Marcellus
87	2/13/2021	8075	7907	28	Marcellus
88	2/13/2021	7881	7713	28	Marcellus
89	2/13/2021	7687	7547	24	Marcellus

09/16/2022

HG Energy II Appalachia, LLC

Neel 1207 N-3H

Stimulation Information

Stage #	Date	Ave pump rate (BPM)	Ave Treatment Press (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve / 1	12/19/2020	65.4	9534	N/A	3945	269820	7749
2	12/20/2020	82.0	9,700	6,801	4,920	702,600	14,036
3	12/21/2020	83.0	9,916	6,440	5,385	649,000	14,813
4	12/21/2020	78.4	9,913	5,786	5,411	702,500	13,841
5	12/22/2020	77.9	9,854	5,826	4,884	703,440	13,831
6	12/24/2020	75.2	9,828	6,732	4,973	702,270	14,773
7	12/26/2020	69.6	9,809	5,754	4,754	701,140	12,702
8	12/29/2020	77.9	9,852	6,771	4,726	702,880	11,732
9	12/29/2020	78.6	9,945	-	5,940	706,040	11,808
10	12/31/2020	77.6	9,689	6,974	4,596	705,180	9,904
11	12/31/2020	73.3	9,715	6,126	4,856	697,440	10,068
12	1/1/2021	80.2	9,890	6,622	4,780	704,380	12,176
13	1/2/2021	74.7	9,697	6,594	5,006	705,440	9,965
14	1/3/2021	76.9	9,746	6,498	5,069	559,940	8,953
15	1/3/2021	75.0	9,853	6,089	5,120	706,140	9,864
16	1/4/2021	77.0	9,936	6,159	4,576	705,720	10,955
17	1/5/2021	77.3	9,970	6,355	5,100	707,400	12,083
18	1/6/2021	83.0	9,743	6,371	5,540	706,360	11,169
19	1/6/2021	85.0	9,767	5,211	5,416	706,040	11,087
20	1/7/2021	86.2	9,867	6,368	5,640	706,800	11,069
21	1/7/2021	86.6	9,984	5,682	5,050	635,700	10,164
22	1/8/2021	89.0	9,867	6,134	5,820	706,400	10,004
23	1/9/2021	89.5	9,853	6,353	4,600	636,600	10,257
24	1/10/2021	95.0	9,948	4,993	4,618	705,280	10,124
25	1/10/2021	91.0	9,656	5,945	5,340	704,880	9,917
26	1/12/2021	89.0	9,671	4,910	5,900	705,960	10,775
27	1/16/2021	87.8	9,693	5,919	4,652	602,000	8,646
28	1/16/2021	85.7	9,906	6,423	4,723	601,600	8,469
29	1/18/2021	85.5	9,975	6,243	4,791	601,340	8,594
30	1/19/2021	88.6	9,816	6,185	4,647	601,520	8,613
31	1/19/2021	85.3	9,832	6,408	4,747	601,040	8,614
32	1/20/2021	87.6	9,905	6,547	5,420	604,520	8,645
33	1/20/2021	92.2	9,992	5,814	5,320	602,240	8,598
34	1/20/2021	95.0	9,636	5,635	4,754	601,060	8,580
35	1/21/2021	97.6	9,982	5,619	5,540	601,540	7,683
36	1/21/2021	96.7	9,933	5,574	4,920	601,560	7,798
37	1/22/2021	97.9	9,960	5,321	5,460	601,560	7,754
38	1/23/2021	96.8	9,709	5,100	4,810	603,960	7,821
39	1/23/2021	95.7	9,808	4,951	5,120	601,640	7,739
40	1/28/2021	92.3	9,916	5,727	4,860	600,140	6,914
41	1/29/2021	87.9	9,746	5,702	4,412	600,200	6,806
42	1/29/2021	81.3	9,764	5,586	5,610	600,680	6,861
43	1/30/2021	85.1	9,605	3,208	4,717	601,300	7,087
44	1/30/2021	92.5	9,571	5,063	4,684	600,800	7,250
45	1/30/2021	90.6	9,836	4,776	4,660	601,620	6,939
46	1/31/2021	85.4	9,609	4,346	4,603	608,740	7,921
47	1/31/2021	93.6	9,899	-	4,900	609,020	8,051
48	2/1/2021	93.7	9,732	5,869	5,359	608,300	7,907
49	2/1/2021	89.0	9,776	4,374	5,604	608,340	7,962
50	2/2/2021	83.9	9,551	5,432	5,450	601,100	8,486
51	2/2/2021	82.3	9,490	5,748	5,230	604,000	8,381
52	2/2/2021	90.0	9,898	5,631	4,700	602,060	8,412
53	2/3/2021	86.3	9,603	4,014	4,680	601,500	8,249
54	2/3/2021	87.2	9,766	3,697	4,201	800,560	14,755
55	2/3/2021	92.8	9,227	2,649	4,424	600,300	10,746
56	2/4/2021	99.3	9,343	6,122	4,982	600,800	9,957

57	2/4/2021	104	9,552	5,073	4,493	600,260	9,907
58	2/4/2021	100	9,375	5,601	5,007	600,770	9,798
59	2/5/2021	100.8	9,547	4,757	4,845	601,200	9,909
60	2/5/2021	106	9,601	5,175	4,802	601,040	8,532
61	2/5/2021	106	9,704	5,047	4,911	601,960	8,388
62	2/5/2021	100.3	8,952	5,043	5,012	601,200	8,425
63	2/6/2021	105	8,901	4,912	4,609	601,080	8,322
64	2/6/2021	105	9,069	5,319	4,650	601,320	8,414
65	2/6/2021	106.7	8,868	5,216	4,891	601800	8,449
66	2/6/2021	105.6	8,615	5,052	4,426	600500	8,275
67	2/7/2021	106	8,773	4,943	4,478	602780	8,394
68	2/7/2021	100	9,241	4,992	4,283	602300	8,283
69	2/7/2021	93.6	9,269	5,474	4,565	601600	8,339
70	2/8/2021	97.8	9,581	5,061	4,355	601000	8,310
71	2/8/2021	94	9,263	5,358	4,577	600820	8,384
72	2/8/2021	100	9,553	5,395	4,326	601740	8,409
73	2/8/2021	97.7	9,402	4,839	4,581	707200	9,632
74	2/9/2021	101.8	9,173	5,426	4,481	705600	9,596
75	2/9/2021	106	8,959	4,332	4,867	705920	9,615
76	2/9/2021	104	8,924	4,779	4,577	705260	9,725
77	2/9/2021	105.9	8,990	5,252	5,350	705600	9,427
78	2/10/2021	107	9,047	4,575	4,780	600960	8,388
79	2/10/2021	107	8,553	4,786	4,703	601540	8,495
80	2/11/2021	105.1	8,800	5,797	4,731	601820	8,400
81	2/11/2021	109.3	8,899	5,042	4,871	601380	8,357
82	2/12/2021	105	8,412	5,460	4,720	604300	8,833
83	2/12/2021	109.2	8,693	5,619	4,518	602200	8,815
84	2/12/2021	107.8	8,492	5,088	5,062	601140	8,847
85	2/12/2021	111.2	8,625	4,545	4,849	601200	8,692
86	2/13/2021	109.3	8,455	4,676	4,790	602700	8,898
87	2/13/2021	110.1	8,512	4,182	5,140	601700	9,571
88	2/13/2021	109.7	8,812	5,914	4,431	601460	9,723
89	2/13/2021	105.7	8,977	6,067	4,151	600640	9,574

09/16/2022

7,883' to Top Hole

3,013' to Bottom Hole

HG Energy II Appalachia, LLC
Well No. Neel 1207 N-3H
As-Drilled

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. Neel 1207 N-3H West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements. Top Hole coordinates Latitude: 39°09'07.91" Longitude: 80°24'10.10" Bottom Hole coordinates Latitude: 39°11'45.19" Longitude: 80°25'38.29" UTM Zone 17, NAD 1983 Top Hole Coordinates N: 4,333,846.534m E: 551,617.358m Bottom Hole Coordinates N: 4,338,681.019m E: 549,469.990m Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.

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



TOP LONGITUDE 80 - 22 - 30
BTM LONGITUDE 80 - 25 - 00



5,268' to Top Hole

Notes:
Well No. Neel 1207 N-3H UTM NAD 1983 (USSF)
Top Hole Coordinates N: 14,218,628.17" E: 1,809,764.61"
Landing Point Coordinates N: 14,218,198.99" E: 1,808,509.09"
Bottom Hole Coordinates N: 14,234,489.31" E: 1,802,719.46"

5"x9"x7" stone w/ 3 hack marks

Legend

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



ID	Lease
2	A.J. Smith, et ux
3	Dora B. McWhorter, et al
8	Charles H. Gaston, et al
9	Leeman Maxwell, et al
11	Camella Y. Morris, et al
12	WV Conservation Committee
15	Hiram J. Burnside
20	Union National Bank, et al
22	Vance Ward, et al
24	Zina M. Davis, et al

Notes: 1 water well was found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

Tag	Bearing	Dist.
L1	S 00°19' E	1,179.3'
L2	S 23°17' W	1,312.3'
L3	S 83°35' W	2,154.1'
L4	N 59°39' W	1,165.0'

FILE NO: 296-36-G-18
DRAWING NO: 1207 Neel N-3H ASWP
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

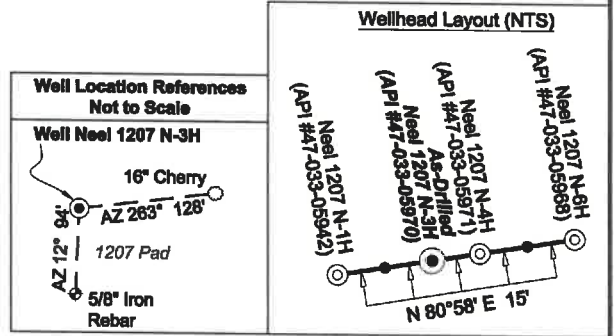
STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: April 14 20 21
OPERATOR'S WELL NO. Neel 1207 N-3H
API WELL NO
47 - 033 - 05970
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,344' WATERSHED: Middle West Fork Creek QUADRANGLE: West Milford
DISTRICT: Grant / Union COUNTY: Harrison
SURFACE OWNER: HG Energy II Appalachia, LLC ACREAGE: 103.07
ROYALTY OWNER: Dora B. McWhorter, et al LEASE NO: ACREAGE: 103.00
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 7,247' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,858' 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



No.	TM / Par	Ac.	Owner	Bk / Pg
1	445 / 5	89.07	HG Energy II Appalachia, LLC	— / —
2	445 / 13	132.852	Mickey Potitto	WB175 / 1153
3	445 / 3	64.00		
4	445 / 12	64.50	Lisa M. Nutter	WB687 / 445
5	445 / 5.1	3.38	David W. Lohr	1531 / 421
6	425 / 28	32.30	WV State Conservation Commission	WB33 / 148
7	445 / 2	84.57	Lisa M. Nutter	WB687 / 445
8	445 / 25	194.90		
9	445 / 24	19.80	Linda J. Maxwell Revocable Trust	1302 / 793
10	425 / 5	173.80		
	425 / 7	5.50	WV State Conservation Commission	WB33 / 148
11	445 / 25.2	83.199		
	425 / 4	4.35	Laurinda R. Beckstead	1420 / 941
12	425 / 4.4	1.99	Robert W. & Jennifer L. Delaney	1501 / 21
13	425 / 25.1	5.45		1284 / 1121
14	425 / 4.2	3.14		
15	425 / 4.1	2.02	Paul R. & Linda R. Beatty	
16	425 / 3	14.00		1286 / 489
17	405 / 76	57.68	WV State Conservation Commission	WB33 / 148
18	405 / 75	202.18	William Michael McDonald	1377 / 99
19	425 / 4.3	30.50	Laurinda Raye Beckstead	1177 / 651
20	405 / 87	38.10	Terence L. Washburn, et al	1436 / 989
21	405 / 59	43.40	Terence L. Washburn	1294 / 433
22	405 / 89	62.35	James D. McWhorter	— / —
23	405 / 61	12.00		
24	405 / 60	18.12	Samuel S. Stark	1327 / 1048
25	406 / 68	2.47	James D. McWhorter	1505 / 1158
26	385 / 81	85.50	Buffalo Lake Development, LLC	1526 / 585
27	405 / 4	20.17	Betty Jo & Kyle Fridley	1233 / 244
28	405 / 89.3	4.0	Jeremy T. & Erin N. Bowers	1497 / 897
29	405 / 1.4	25.07		
30	405 / 1.3	10.48	Joseph Workman	1377 / 1131
31	405 / 89.1	0.72	Roberta K. Cottrill	1178 / 739
32	405 / 6	21.93	James Ivan McDonald	1373 / 505
33	405 / 4	20.17	Betty Jo & Kyle Fridley	1347 / 1133
34	405 / 62	58.24	Evelyn M. Ward LE	1233 / 244
35	405 / 5	6.05	James Ivan McDonald	— / —
36	405 / 1	0.94	Brandon T. Leary	1229 / 370
37	405 / 8	10.19	Larry W. & Dorothy L. Detamore	1498 / 749
38	405 / 8.1	1.06		1196 / 714
39	405 / 8.2	0.52	George F. & Helen M. Peterson	1379 / 1146
40	405 / 26.1	0.88	William & Cynthia Marsh	1410 / 1060
41	405 / 26.2	0.74	Eugene D. Wilson	1139 / 446
42	405 / 26.4	0.405		957 / 247
43	405 / 26.6	0.140	John & Linda Cathell	980 / 697
44	405 / 26	3.759	Margaret L. Phillips	1101 / 779
45	405 / 62.1	74.30	John & Mary Stenger	1177 / 635
46	405 / 4.1	0.94	James Ivan McDonald	1402 / 334
47	405 / 70	3.452		1229 / 370
48	405 / 70.1	3.452	Michael A. & Carleen	1527 / 649
49	405 / 71	2.97	Eugene & Violet A. Debarr	1109 / 97
50	405 / 71.1	1.485	Kathy D. Bennett	1109 / 97
51	405 / 62.10	2.06	Danny J. & Deborah J. Miller	1505 / 8
52	405 / 62.6	2.63	Michael T. Jr & Ramona J. Morris	1527 / 376

No.	TM / Par	Ac.	Owner	Bk / Pg
51	405 / 62.3	1.28	Wayne & Naomi McHenry	1537 / 486
52	405 / 72	4.32	Sandra W. & Willard Miller	1031 / 654
53	405 / 72.1	4.32	Melissa Barker	1403 / 68
	405 / 62.4	0.99		1336 / 890
54	405 / 62.7	0.48	Tricia A. & Jeremy L. Dobbins	1452 / 340
	405 / 62.9	0.74		1476 / 953
	405 / 73	45.00		WB177 / 1179
55	405 / 74	107.76	Mary Lou Smith	WB177 / 1179
	405 / 80	90.97		WB177 / 1179
	405 / 81	42.00		
56	425 / 6	105.55	WV Dept. of Natural Resources	WB85 / 624
	425 / 14	73.60		
	425 / 15	40.85		
57	425 / 13	9.00	Penny L. Hill	1481 / 53
58	425 / 5	61.50	WV State Conservation Comm.	WB33 / 148
59	425 / 8	151.09	James L. Sellers Family Revocable Trust	1480 / 728
	425 / 8.1	13.481		
60	425 / 27	26.40	Marva Sheperd	WB166 / 413
	425 / 28	19.92		
61	425 / 12	42.30		
	425 / 18	122.25	Antonio P. LLC	1503 / 291
	425 / 17	48.00		
62	425 / 11	6.29		
	425 / 11.1	5.12	Linda Snyder	1124 / 768
63	425 / 10	9.60	Joy L. Jarrett	1272 / 348
64	425 / 10.1	3.10	Robert R. & Debbie A Partain	1308 / 653
65	425 / 9	3.88	Leslie S. Riggleman	WB127 / 680
66	425 / 8.3	1.408	Melanie S. & Jay A. Morris	1386 / 660
67	425 / 8.2	0.39	Linda & Mark Wilfong	1438 / 83
68	425 / 20	3.00	Jeffery L. & Parry S. Harvey	1394 / 607
69	425 / 21	15.28	Juddith H. Russell	1212 / 1074
70	425 / 22	1.00	Duck Creek Mission Church Trust	1024 / 984
71	425 / 9.1	4.22	Sharon Campbell	1374 / 1083
72	425 / 9.2	4.66	Michael & Cecilia Daughtery	1543 / 1305
73	385 / 82.1	10.05	Lloyd W. Brake Jr. Trust	1427 / 141
74	405 / 6	21.93	James Ivan McDonald	1347 / 113
75	405 / 83	1.01	Pamela M. Puddister	1277 / 279
76	405 / 83.2	42.47	Larry D. Meyers Revocable Trust	W191/1279
77	405 / 83.6	42.47	John P. & Virginia R. Markley	1353 / 1084
78	405 / 83.7	1.00	Robert J. Jr. & Joyce B. Markley	1560 / 310
79	405 / 83.5	4.00	Charles F. & Dawn L. Grow	1485 / 523
80	405 / 63.10	4.00	Kimberly K. & John T. Lough	1518 / 822
81	425 / 23.3	0.54		
	425 / 29.1	0.27	Rhonda R. & George P. Koutsobaris	1420 / 93
82	405 / 28	2.80	David Allen Bunch	W173/1273
83	405 / 27	1.04	Betty Fridley	W160/268
84	405 / 26.8	1.04		
	405 / 89	3.50	Megan & Chad Fincham	1524 / 645

FILE NO: 296-36-G-18
 DRAWING NO: 1207 Neel N-3H ASWP
 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: April 14 20 21
 OPERATOR'S WELL NO. Neel 1207 N-3H
 API WELL NO
 47 — 033 — 05970
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,344' WATERSHED: Middle West Fork Creek QUADRANGLE: West Milford
 DISTRICT: Grant / Union COUNTY: Harrison
 SURFACE OWNER: HG Energy II Appalachia, LLC ACREAGE: 89.07
 ROYALTY OWNER: Dora B. McWhorter, et al LEASE NO: ACREAGE: 103.00
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) 7,247' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,858' MD

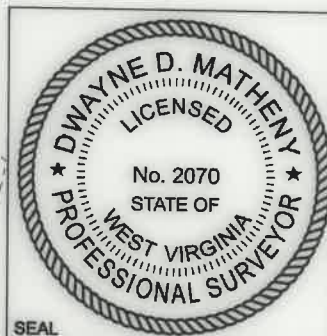
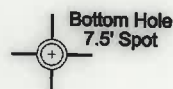
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
 ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
 Parkersburg, WV 26101 Parkersburg, WV 26101

7,883' to Top Hole

3,013' to Bottom Hole

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

TOP LONGITUDE 80 - 22 - 30
BTM LONGITUDE 80 - 25 - 00



HG Energy II Appalachia, LLC
Well No. Neel 1207 N-3H
As-Drilled

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. Neel 1207 N-3H West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates
Latitude: 39°09'07.91"
Longitude: 80°24'10.10"
Bottom Hole coordinates
Latitude: 39°11'45.18"
Longitude: 80°25'38.29"
UTM Zone 17, NAD 1983
Top Hole Coordinates
N: 4,333,846.534m
E: 551,817.356m
Bottom Hole Coordinates
N: 4,338,881.019m
E: 549,488.990m
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. Neel 1207 N-3H UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,628.17'
E: 1,809,764.81'
Landing Point Coordinates
N: 14,218,196.99'
E: 1,808,509.09'
Bottom Hole Coordinates
N: 14,234,489.31'
E: 1,802,719.48'

Legend

- ⊙ Proposed gas well
- ⊕ Well Reference, as noted
- ⊗ Monument, as noted
- ☀ Existing Well, as noted
- ☀ Existing Plugged Well, as noted
- ☀ Digitized Well, as noted
- Creek or Drain
- Existing Road
- Surface boundary (approx.)
- Interior surface tracts (approx.)

Note: 1 water well was found within 2000' of proposed well. No occupied dwellings or buildings 2,500 square feet or larger used to house or shelter dairy cattle or poultry husbandry are located within 625' of the center of the well pad.

ID	Lease
2	A.J. Smith, et ux
3	Dora B. McWhorter, et al
8	Charles H. Gaston, et al
9	Leeman Maxwell, et al
11	Camella Y. Morris, et al
12	WV Conservation Committee
15	Hiram J. Burnside
20	Union National Bank, et al
22	Vance Ward, et al
24	Zina M. Davis, et al

Tag	Bearing	Dist.
L1	S 00°19' E	1,179.3'
L2	S 23°17' W	1,312.3'
L3	S 83°35' W	2,154.1'
L4	N 59°39' W	1,165.0'

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

DATE: April 14 20 21

OPERATOR'S WELL NO. Neel 1207 N-3H

API WELL NO

47 - 033 - 05970
STATE COUNTY PERMIT

FILE NO: 296-36-G-18
DRAWING NO: 1207 Neel N-3H ASWP
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: 1,344' WATERSHED: Middle West Fork Creek

DISTRICT: Grant / Union

SURFACE OWNER: HG Energy II Appalachia, LLC

ROYALTY OWNER: Dora B. McWhorter, et al

LEASE NO: _____ ACREAGE: 103.00

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,247' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,858' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

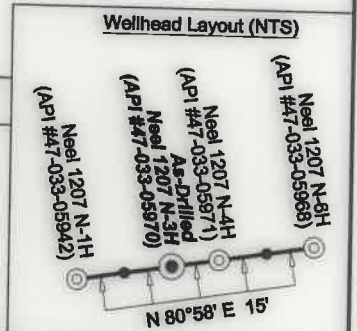
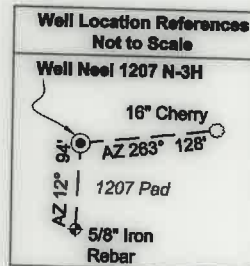
DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

QUADRANGLE: West Milford
COUNTY: Harrison
ACREAGE: 89.07

05/16/2022



No.	TM / Par	Ac.	Owner	Bk / Pg
1	445 / 5	89.07	HG Energy II Appalachia, LLC	— / —
2	445 / 13	132.852	Mickey Petitto	WB175 / 1153
3	445 / 3	64.00		
4	445 / 12	64.50	Lisa M. Nutter	WB687 / 445
5	445 / 5.1	3.38	David W. Lohr	1531 / 421
6	425 / 26	32.30	WV State Conservation Commission	WB33 / 148
7	445 / 2	84.57	Lisa M. Nutter	WB687 / 445
8	445 / 25	194.90		
9	445 / 24	19.60	Linda J. Maxwell Revocable Trust	1302 / 793
10	425 / 5	173.80		
	425 / 7	5.50	WV State Conservation Commission	WB33 / 148
11	445 / 25.2	83.199		
12	425 / 4	4.35	Laurinda R. Beckstead	1420 / 941
13	425 / 4.4	1.99	Robert W. & Jennifer L. Delaney	1501 / 21
14	425 / 25.1	5.45		1284 / 1121
15	425 / 4.2	3.14		
16	425 / 4.1	2.02	Paul R. & Linda R. Beatty	1286 / 489
17	425 / 3	14.00		
18	405 / 76	57.68	WV State Conservation Commission	WB33 / 148
19	405 / 75	202.18	William Michael McDonald	1377 / 99
20	425 / 4.3	30.50	Lauminda Raye Beckstead	1177 / 651
21	405 / 67	38.10	Terence L. Washburn, et al	1436 / 989
22	405 / 59	43.40	Terence L. Washburn	1294 / 433
23	405 / 69	62.35	James D. McWhorter	— / —
24	405 / 61	12.00		
25	405 / 60	18.12	Samuel S. Stark	1327 / 1048
26	406 / 68	2.47	James D. McWhorter	1505 / 1158
27	385 / 81	85.50	Buffalo Lake Development, LLC	1526 / 585
28	405 / 4	20.17	Betty Jo & Kyle Fridley	1233 / 244
29	405 / 69.3	4.0	Jeremy T. & Erin N. Bowers	1497 / 897
30	405 / 1.4	25.07		1377 / 1131
31	405 / 1.3	10.48	Joseph Workman	1178 / 739
32	405 / 69.1	0.72	Roberta K. Cottrill	1373 / 605
33	405 / 6	21.93	James Ivan McDonald	1347 / 1133
34	405 / 4	20.17	Betty Jo & Kyle Fridley	1233 / 244
35	405 / 62	58.24	Evelyn M. Ward LE	— / —
36	405 / 5	6.05	James Ivan McDonald	1229 / 370
37	405 / 1	0.94	Brandon T. Leary	1498 / 749
38	405 / 8	10.19	Larry W. & Dorothy L. Detamore	1196 / 714
39	405 / 6.1	1.06		1379 / 1146
	405 / 6.2	0.52	George F. & Helen M. Peterson	1410 / 1060
40	405 / 26.1	0.88	William & Cynthia Marsh	1139 / 446
41	405 / 26.2	0.74	Eugene D. Wilson	957 / 247
42	405 / 26.4	0.405	John & Linda Cathell	980 / 697
	405 / 26.6	0.140		1101 / 779
43	405 / 26	3.759	Margaret L. Phillips	1177 / 635
44	405 / 62.1	74.30	John & Mary Stenger	1402 / 334
45	405 / 4.1	0.94	James Ivan McDonald	1229 / 370
46	405 / 70.1	3.452		
	405 / 70.1	3.452	Michael A. & Carleen	1527 / 649
47	405 / 71	2.97	Eugene & Violet A. Dobarr	1109 / 97
48	405 / 71.1	1.485	Kathy D. Bennett	1109 / 97
49	405 / 62.10	2.06	Danny J. & Deborah J. Miller	1505 / 8
50	405 / 62.8	2.83	Michael T. Jr & Ramona J. Morris	1527 / 376

No.	TM / Par	Ac.	Owner	Bk / Pg
51	405 / 62.3	1.26	Wayne & Naomi McHenry	1537 / 486
52	405 / 72	4.32	Sandra W. & Willard Miller	1031 / 554
53	405 / 72.1	4.32	Melissa Barker	1403 / 68
	405 / 62.4	0.99		1336 / 990
54	405 / 62.7	0.48	Tricia A. & Jeremy L. Dobbins	1452 / 340
	405 / 62.9	0.74		1476 / 953
	405 / 73	45.00		WB177 / 1179
55	405 / 74	107.76	Mary Lou Smith	WB177 / 1179
	405 / 80	90.97		WB177 / 1179
	405 / 81	42.00		
56	425 / 6	105.55	WV Dept. of Natural Resources	WB85 / 624
	425 / 14	73.60		
	425 / 15	40.85		
57	425 / 13	9.00	Penny L. Hill	1481 / 53
58	425 / 5	61.50	WV State Conservation Comm.	WB33 / 148
59	425 / 8	151.09	James L. Sellers Family Revocable Trust	1480 / 728
	425 / 8.1	13.481		
60	425 / 27	26.40	Marva Sheperd	WB166 / 413
	425 / 28	19.92		
	425 / 12	42.30		
61	425 / 16	122.25	Antonio P. LLC	1503 / 291
	425 / 17	48.00		
62	425 / 11	6.29		
	425 / 11.1	5.12	Linda Snyder	1124 / 768
63	425 / 10	9.60	Joy L. Jarrett	1272 / 348
64	425 / 10.1	3.10	Robert R. & Debbie A. Partain	1308 / 553
65	425 / 9	3.88	Leslie S. Riggleman	WB127 / 680
66	425 / 8.3	1.408	Melanie S. & Jay A. Morris	1356 / 680
67	425 / 8.2	0.39	Linda & Mark Wilfong	1438 / 93
68	425 / 20	3.00	Jeffery L. & Parry S. Harvey	1394 / 607
69	425 / 21	15.26	Judith H. Russell	1212 / 1074
70	425 / 22	1.00	Duck Creek Mission Church Trust	1024 / 964
71	425 / 9.1	4.22	Sharon Campbell	1374 / 1063
72	425 / 9.2	4.66	Michael & Cecilia Daughtery	1543 / 1305
73	385 / 82.1	10.05	Lloyd W. Brake Jr. Trust	1427 / 141
74	405 / 6	21.93	James Ivan McDonald	1347 / 113
75	405 / 83	1.01	Pamela M. Puddister	1277 / 279
76	405 / 63.2	42.47	Larry D. Meyers Revocable Trust	W191/1279
77	405 / 63.6	42.47	John P. & Virginia R. Markley	1353 / 1084
78	405 / 63.7	1.00	Robert J. Jr. & Joyce B. Markley	1560 / 310
79	405 / 63.5	4.00	Charles F. & Dawn L. Grow	1495 / 523
80	405 / 63.10	4.00	Kimberly K. & John T. Lough	1518 / 822
81	425 / 23.3	0.54	Rhonda R. & George P. Koutsobaris	1420 / 93
	425 / 29.1	0.27		
82	405 / 28	2.60	David Allen Bunch	W173/1273
83	405 / 27	1.04	Betty Fridley	W160/266
	405 / 26.8	1.04		
84	405 / 89	3.50	Megan & Chad Fincham	1524 / 645

FILE NO: 296-36-G-18
DRAWING NO: 1207 Neel N-3H ASWP
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: April 14 20 21
OPERATOR'S WELL NO. Neel 1207 N-3H
API WELL NO
47 — 033 — 05970
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,344' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Union

SURFACE OWNER: HG Energy II Appalachia, LLC
ROYALTY OWNER: Dora B. McWhorter, et al

QUADRANGLE: West Milford
COUNTY: Harrison
ACREAGE: 89.07

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: 7,247' TVD 24,858' 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