

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

API 47 - 033 - 05942 County Harrison District Grant Union
Quad West Milford Pad Name Neel 1207 Field/Pool Name Fink Kennedy
Farm name Neel Well Number 1207 N1H
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 4333845.098 Easting 551608.325
Landing Point of Curve Northing 4333537.000 Easting 550874.600
Bottom Hole Northing 4338284.790 Easting 549129.586

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 3/21/2019 Date drilling commenced 1/8/2020 Date drilling ceased 11/10/2020
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 6/10/21

Reviewed by:
JM PSDW
09/16/2022

API 47-033 - 05942 Farm name Neel Well number 1207 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		No
Surface	26"	20"	1101	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	2190	New	68 lbs/ft J-55		Yes
Intermediate 2	12.25"	9.625"	3027	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5"	5.5"	24631	New	23 lbs/ft P-110		No
Tubing	5.5"	2.875"	8000.63	New	6.5 lbs/ft J55		not cemented
Packer type and depth set							

Comment Details Production casing job: 260 bbls into displacement lost returns, decreased rate to 3 bbl/min and still had minimal returns. At 310 bbls into displacement increased rate to 5 bbls/min and had minimal to no returns.
Landed plug @ 3 bbl/min on calculated displacement at 3300 psi and held for 5 minutes, released pressure and got 5 bbls back.

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	2297	15.6	1.18	2710	surface	8
Coal							
Intermediate 1	Class A	1888/732	16.0/16.4	1.16/1.12	2190/820	surface	24
Intermediate 2	Class A	1038	15.6	1.19	1235.22	surface	8
Intermediate 3							
Production	Class A	4763	14.8	1.34	6382.42	4050	8
Tubing							

Drillers TD (ft) 24668 Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 6700'

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 N-1H
 Perforation Record

Stage #	Perf Date	Perf from depth	Perf to depth	Number of perfs	Formation
Sleeve / 1	12/19/2020	24576	24549	N/A	Marcellus
2	12/20/2020	24,515	24,347	28	Marcellus
3	12/21/2020	24,319	24,151	28	Marcellus
4	12/21/2020	24,123	23,955	28	Marcellus
5	12/22/2020	23,927	23,759	28	Marcellus
6	12/22/2020	23,731	23,563	28	Marcellus
7	12/22/2020	23,535	23,367	28	Marcellus
8	12/23/2020	23,339	23,171	28	Marcellus
9	12/23/2020	23,143	22,975	28	Marcellus
10	12/23/2020	22,947	22,779	28	Marcellus
11	12/24/2020	22,751	22,583	28	Marcellus
12	12/24/2020	22,555	22,387	28	Marcellus
13	12/24/2020	22,359	22,191	28	Marcellus
14	12/25/2020	22,163	21,995	28	Marcellus
15	12/26/2020	21,967	21,799	28	Marcellus
16	12/26/2020	21,771	21,603	28	Marcellus
17	12/27/2020	21,575	21,407	28	Marcellus
18	12/27/2020	21,379	21,211	28	Marcellus
19	12/28/2020	21,183	21,015	32	Marcellus
20	12/28/2020	20,987	20,819	32	Marcellus
21	12/30/2020	20,791	20,623	32	Marcellus
22	1/1/2021	20,595	20,427	32	Marcellus
23	1/1/2021	20,399	20,231	32	Marcellus
24	1/1/2021	20,203	20,035	32	Marcellus
25	1/1/2021	20,007	19,839	32	Marcellus
26	1/2/2021	19,811	19,643	32	Marcellus
27	1/2/2021	19,615	19,447	32	Marcellus
28	1/2/2021	19,419	19,251	32	Marcellus
29	1/3/2021	19,223	19,054	32	Marcellus
30	1/3/2021	19,027	18,859	28	Marcellus
31	1/3/2021	18,831	18,663	28	Marcellus
32	1/3/2021	18,635	18,467	28	Marcellus
33	1/4/2021	18,439	18,271	28	Marcellus
34	1/4/2021	18,243	18,075	28	Marcellus
35	1/4/2021	18,047	17,879	28	Marcellus
36	1/5/2021	17,851	17,683	28	Marcellus
37	1/5/2021	17,655	17,487	28	Marcellus
38	1/6/2021	17,459	17,291	28	Marcellus
39	1/6/2021	17,263	17,095	28	Marcellus
40	1/6/2021	17,067	16,899	28	Marcellus
41	1/6/2021	16,871	16,703	28	Marcellus
42	1/7/2021	16,675	16,507	28	Marcellus
43	1/20/2021	16,479	16,311	28	Marcellus
44	1/21/2021	16,283	16,115	28	Marcellus
45	1/21/2021	16,087	15,919	28	Marcellus
46	1/21/2021	15,891	15,723	28	Marcellus
47	1/22/2021	15,695	15,527	28	Marcellus
48	1/23/2021	15,499	15,331	28	Marcellus
49	1/23/2021	15,303	15,135	28	Marcellus
50	1/24/2021	15,107	14,939	28	Marcellus
51	1/24/2021	14,911	14,743	28	Marcellus
52	1/24/2021	14,715	14,547	28	Marcellus
53	1/25/2021	14,519	14,351	28	Marcellus
54	1/25/2021	14,323	14,155	28	Marcellus

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55	1/25/2021	14,127	13,959	28	Marcellus
56	1/25/2021	13,931	13,763	28	Marcellus
57	1/26/2021	13,735	13,567	28	Marcellus
58	1/27/2021	13,539	13,371	28	Marcellus
59	1/27/2021	13,343	13,175	28	Marcellus
60	1/28/2021	13,147	12,979	28	Marcellus
61	1/29/2021	12,951	12,783	28	Marcellus
62	1/29/2021	12,754	12,586	28	Marcellus
63	1/29/2021	12,556	12,388	28	Marcellus
64	1/29/2021	12,358	12,190	28	Marcellus
65	1/30/2021	12160	11992	28	Marcellus
66	1/30/2021	11962	11794	28	Marcellus
67	1/31/2021	11764	11596	28	Marcellus
68	1/31/2021	11566	11398	28	Marcellus
69	2/9/2021	11368	11200	28	Marcellus
70	2/10/2021	11170	11002	28	Marcellus
71	2/10/2021	10972	10804	28	Marcellus
72	2/10/2021	10774	10606	28	Marcellus
73	2/11/2021	10576	10408	28	Marcellus
74	2/12/2021	10378	10210	28	Marcellus
75	2/12/2021	10180	10012	28	Marcellus
76	2/12/2021	9982	9814	28	Marcellus
77	2/12/2021	9784	9616	28	Marcellus
78	2/13/2021	9586	9418	28	Marcellus
79	2/13/2021	9388	9220	28	Marcellus
80	2/14/2021	9190	9022	28	Marcellus
81	2/14/2021	8992	8824	28	Marcellus
82	2/14/2021	8794	8626	28	Marcellus
83	2/14/2021	8596	8428	28	Marcellus
84	2/16/2021	8398	8230	28	Marcellus
85	2/16/2021	8200	8032	28	Marcellus

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HG Energy II Appalachia, LLC
Neel 1207 N-1H
Stimulation Record

Stage #	Date	Ave pump rate (BPM)	Ave Treatment Press (PSI)	Max Breakdown Pressure	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve / 1	12/19/2020	63.0	9695	10969	4720	270780	9355
2	12/20/2020	80.0	9,911	8,307	5,020	668,320	13,704
3	12/21/2020	83.0	9,874	6,035	5,188	698,120	14,192
4	12/21/2020	83.0	9,932	7,192	5,304	702,180	14,096
5	12/22/2020	81.0	9,959	7,026	5,428	704,660	13,945
6	12/22/2020	82.0	9,933	7,238	5,456	637,580	12,453
7	12/22/2020	80.5	9,867	7,170	5,612	695,430	12,825
8	12/23/2020	77.2	9,979	7,384	5,512	705,300	11,719
9	12/23/2020	68.2	9,970	7,651	5,931	364,900	9,070
10	12/23/2020	74.3	10,064	7,537	5,689	479,680	10,087
11	12/24/2020	71.6	9,812	7,082	5,316	706,000	11,720
12	12/24/2020	69.4	9,585	6,920	5,173	705,600	11,706
13	12/24/2020	67.7	9,796	6,573	5,395	706,400	11,821
14	12/25/2020	67.5	9,735	6,793	5,411	705,470	11,237
15	12/26/2020	74.0	9,777	6,666	5,658	702,260	11,602
16	12/26/2020	74.3	9,935	6,873	5,341	704,200	11,737
17	12/27/2020	71.0	9,805	6,753	5,327	705,100	11,659
18	12/27/2020	73.5	9,832	6,412	5,809	705,060	11,671
19	12/28/2020	75.2	9,714	6,669	4,904	705,780	11,606
20	12/28/2020	77.4	9,948	6,967	5,731	695,260	11,565
21	12/30/2020	72.0	9,833	6,815	5,280	705,280	9,909
22	1/1/2021	68.8	9,936	6,695	5,460	706,180	9,936
23	1/1/2021	72.4	9,695	6,537	4,450	705,880	9,899
24	1/1/2021	82.7	9,573	6,338	4,708	596,740	9,335
25	1/1/2021	79.7	9,843	6,127	4,540	705,440	11,810
26	1/2/2021	84.5	9,654	6,132	5,783	708,980	9,994
27	1/2/2021	86.7	9,567	5,911	4,802	707,660	9,943
28	1/2/2021	80.6	9,777	5,576	5,170	705,620	9,864
29	1/3/2021	91.8	9,979	5,961	5,040	706,260	10,905
30	1/3/2021	84.5	9,735	5,784	5,484	706,050	9,873
31	1/3/2021	87.1	9,705	6,409	4,972	705,800	9,889
32	1/3/2021	83.9	9,654	6,223	5,060	705,800	9,732
33	1/4/2021	82.0	9,843	6,524	5,586	705,080	9,998
34	1/4/2021	83.4	9,648	6,254	5,708	704,800	9,869
35	1/4/2021	84.2	9,823	6,167	5,160	705,800	9,817
36	1/5/2021	85.0	9,759	5,766	4,149	705,340	9,905
37	1/5/2021	70.5	9,725	6,225	4,705	705,800	9,803
38	1/6/2021	101.0	9,640	5,595	4,620	706,400	9,894
39	1/6/2021	102.0	9,693	4,859	4,380	678,520	11,157
40	1/6/2021	98.0	9,806	5,986	5,064	705,520	11,099
41	1/6/2021	99.1	9,809	6,128	6,280	706,800	9,775
42	1/7/2021	91.3	9,935	6,480	6,020	706,280	9,765
43	1/20/2021	95.8	9,763	6,756	5,407	705,820	9,715
44	1/21/2021	96.8	9,734	6,009	5,200	705,600	9,813
45	1/21/2021	96.8	9,936	6,095	5,140	706,620	9,818
46	1/21/2021	97.5	9,627	5,915	4,059	705,340	9,891
47	1/22/2021	98.2	9,849	6,058	4,658	705,680	9,805
48	1/23/2021	100.1	9,889	5,951	5,060	705,620	9,761
49	1/23/2021	100.1	9,527	6,270	4,770	707,360	9,775
50	1/24/2021	99.6	9,555	4,705	4,773	705,260	9,829
51	1/24/2021	98.3	9,922	6,624	5,000	705,820	9,778
52	1/24/2021	102.0	9,571	6,470	4,670	706,740	9,826
53	1/25/2021	106.6	9,448	6,377	4,566	705,140	10,683
54	1/25/2021	102.5	9,273	6,337	5,120	706,180	9,728
55	1/25/2021	101.5	9,461	6,704	4,780	708,820	9,804
56	1/25/2021	107.8	9,710	7,127	4,632	705,940	9,858
57	1/26/2021	102.2	9,754	6,570	5,021	704,860	9,861
58	1/27/2021	103.8	9,676	5,787	4,377	706,860	9,749
59	1/27/2021	97.5	9,817	6,026	4,980	706,190	9,729
60	1/28/2021	99.9	9,725	5,946	4,883	705,620	10,037
61	1/29/2021	95.5	9,550	5,507	5,109	705,080	9,857
62	1/29/2021	84.3	9,623	6,316	4,579	706,320	9,650
63	1/29/2021	85.3	9,873	6,562	4,980	706,980	9,564
64	1/29/2021	98.3	9,403	5,950	4,713	705,460	9,729
65	1/30/2021	94.8	9,681	6,456	5,440	705376	09/16/2022
66	1/30/2021	96.4	9,571	5,531	4,648	705420	9,712
67	1/31/2021	100.3	9,270	5,385	4,575	705740	9,825
68	1/31/2021	101	9,103	5,201	4,339	679980	9,458
69	2/9/2021	105.4	8,878	6,006	4,910	679800	9,325
70	2/10/2021	107	9,017	5,916	5,044	680200	9,496
71	2/10/2021	105	8,834	5,787	4,162	680780	9,637

72	2/10/2021	106	9460	6351	4141	680480	9538
73	2/11/2021	108	9165	5750	4806	680500	9659
74	2/12/2021	108	9472	6229	4800	628080	8842
75	2/12/2021	108	9188	6546	4843	680420	9477
76	2/12/2021	108	8492	5088	4770	680360	9514
77	2/12/2021	109	8997	6477	5910	681300	9314
78	2/13/2021	104	9409	6431	4545	680060	9516
79	2/13/2021	100	9526	6357	5160	681300	9332
80	2/14/2021	100	9350	5837	4750	677300	9234
81	2/14/2021	108	8976	5800	4737	680380	9937
82	2/14/2021	108	8958	5880	4694	680060	9626
83	2/14/2021	109	8981	5941	5150	683600	9238
84	2/16/2021	109	9172	6399	4780	680500	9361
85	2/16/2021	110	8768	6246	4360	660300	9147

09/16/2022

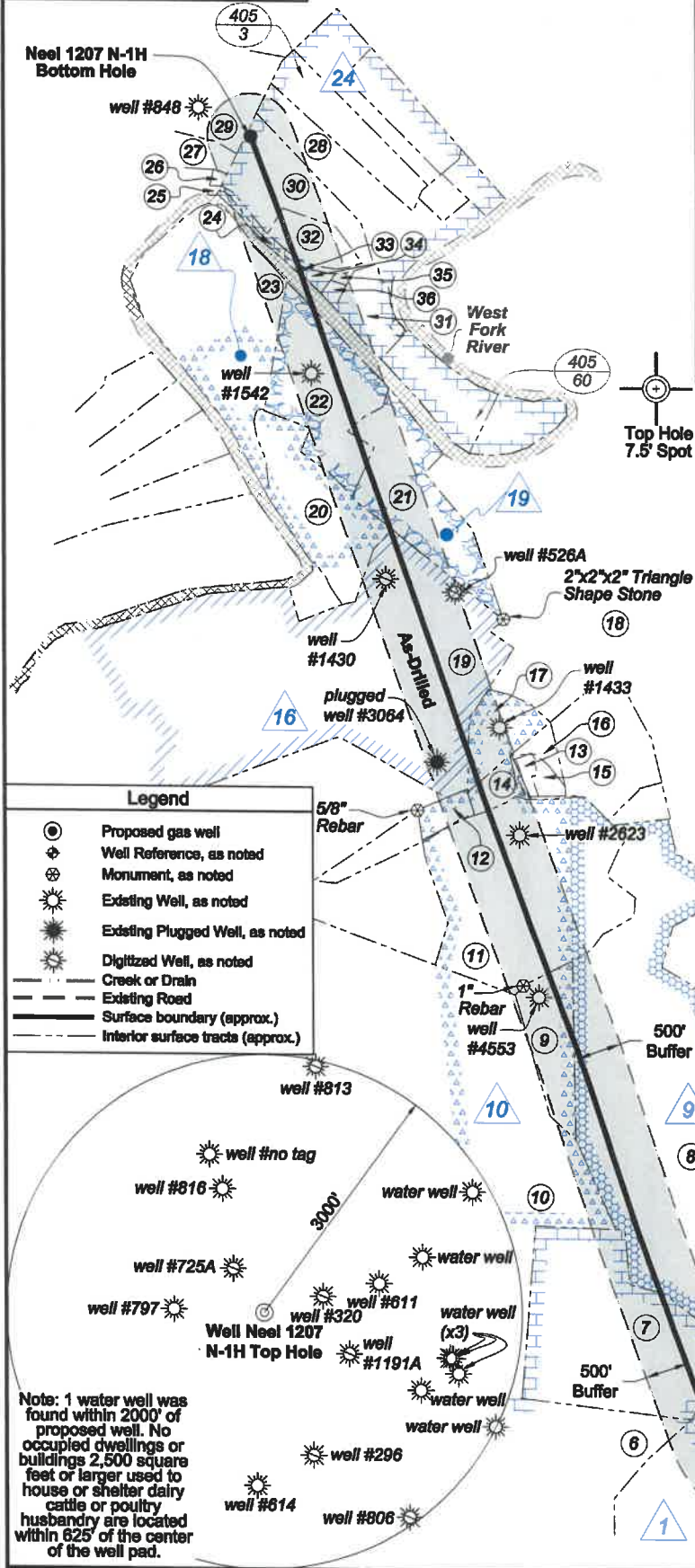
HG Energy II Appalachia, LLC
Neel 1207 N1H
Lithology Record

Formation	Top MD	TVD	Base MD	TVD
Coal	430	430	434	434
Coal	514	514	516	516
Coal	538	538	546	546
Coal	915	915	918	918
1st Salt Sand	910	910	1010	1010
Coal	1046	1046	1054	1054
20" casing		1101		
2nd Salt Sand	1069	1069	1202	1202
3rd Salt Sand	1202	1202	1256	1256
Lower Maxton	1492	1492	1518	1518
Little Lime	1542	1542	1556	1556
Big Lime	1584	1584	1646	1646
Big Injun	1646	1646	1756	1756
Gantz	1968	1968	2030	2030
50' Sand	2074	2074	2140	2140
30 foot Sand	2181	2181	2191	2191
13-3/8" casing		2190		
Gordon Stray	2219	2219	2280	2279
Gordon/Forth Sa	2279	2279	2467	2466
5th Sand	2526	2526	2539	2538
Bayard	2593	2592	2603	2602
Warren	2893	2892	2934	2932
9-5/8' Casing		3027		
Speechley	3203	3200	3224	3220
Balltown	3441	3429	3459	3446
Benson	4758	4536	4777	4551
Rhinestreet	6319	5833	7133	6508
Cashaqua	7133	6508	7406	6732
Middlesex	7406	6732	7526	6829
West River	7526	6829	7675	6942
Burket	7675	6942	7726	6978
Tully	7726	6978	7882	7080
Hamilton	7882	7080	7993	7140
Marcellus	7993	7140	24668	7213



Notes: Well No. Neel 1207 N-1H
West Virginia Coordinate System of 1827, North Zone based upon Differential GPS Measurements.
Top Hole coordinates
Latitude: 39°09'07.87"
Longitude: 80°24'10.48"
Bottom Hole coordinates
Latitude: 39°11'32.41"
Longitude: 80°25'52.58"
UTM Zone 17, NAD 1983
Top Hole Coordinates
N: 4,333,845.098m
E: 551,808.325m
Bottom Hole Coordinates
N: 4,338,284.790m
E: 549,129.586m
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-1H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,623.46'
E: 1,809,734.98'
Landing Point Coordinates
N: 14,217,598.38'
E: 1,807,326.01'
Bottom Hole Coordinates
N: 14,233,189.35'
E: 1,801,802.65'



- 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.)

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

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



Note: 1 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 01°07' W	1,184.2'
L2	S 24°22' W	1,328.5'
L3	S 83°33' W	2,184.1'
L4	N 60°34' W	1,188.4'

FILE NO: 296-36-G-18
DRAWING NO: Neel 1207 N-1H 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-1H
API WELL NO
47 - 033 - 05942
STATE COUNTY PERMIT

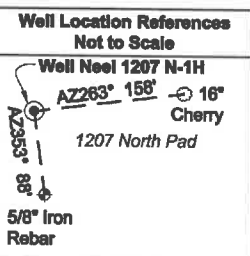
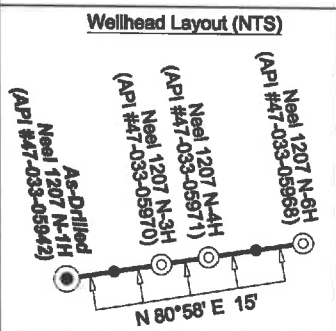
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

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: 103.00
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) 7,213' TVD
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,668' 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



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10	Leeman Maxwell, et al
16	Joseph Chauvront, et al
18	Howard W. Vanscoy, et al
19	Charles H. Washburn
24	Zina M. Davis, et al



No.	TM / Par	Ac.	Owner	Bk / Pg
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2	445 / 13	132.852	Mickey Pettito	WB175 / 1153
3	445 / 3	84.00	Lisa M. Nutter	WB687 / 445
4	445 / 12	84.50		
5	445 / 11	75.50		
6	445 / 10	86.87		
7	445 / 2	84.57		
8	445 / 25	194.90	Linda J. Maxwell Revocable Trust	1302 / 783
9	445 / 24	19.60	Linda & William W. Brodwater III	1410 / 1045
10	445 / 31	247.84		
11	445 / 25.2	83.199	Laurinda R. Beckstead	1420 / 941
12	445 / 25.4	4.55	Ronald L. & Mary Jo Hill	1193 / 304
13	425 / 4.4	1.99	Paul R. & Linda R. Beatty	1284 / 1121
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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	404 / 38	34.48	Rebecca D. Arthur	1504 / 1251
21	405 / 67	38.10	Terence L. Washburn, et al	1438 / 989
22	405 / 59	43.40	Terence L. Washburn	1294 / 433
23	404 / 22	70.90	John L. & Mary Beth Stenger	1280 / 455
24	405 / 23.1	2.00	Oriando M. Underwood & Brenda J. Powers	1565 / 672
25	404 / 23.1	0.145	Roy Murphy Jr.	1559 / 641
26	404 / 23.3	0.56		
27	404 / 24	19.56	Jeffrey & Jean Spiker	1591 / 108
28	405 / 4	20.17	Betty Jo & Kyle Fridley	1233 / 244
29	404 / 25	52.00	Joseph Workman	1377 / 1131
30	405 / 1.4	25.07		
31	405 / 1.3	10.48		
32	405 / 1.1	10.00	Shelton Mark Workman	1308 / 802
33	405 / 23	0.11	Mary Eunice Bowman	WB148 / 28
34	405 / 24	0.89		
35	405 / 25	0.55	Betty Jean Cain	WB1491 / 773
36	405 / 25.1	1.17	David Ray Cain	1289 / 478

FILE NO: 296-36-G-18
DRAWING NO: Neel 1207 N-1H 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-1H
API WELL NO
47 — 033 — 05942
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 Millford
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
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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,668' MD

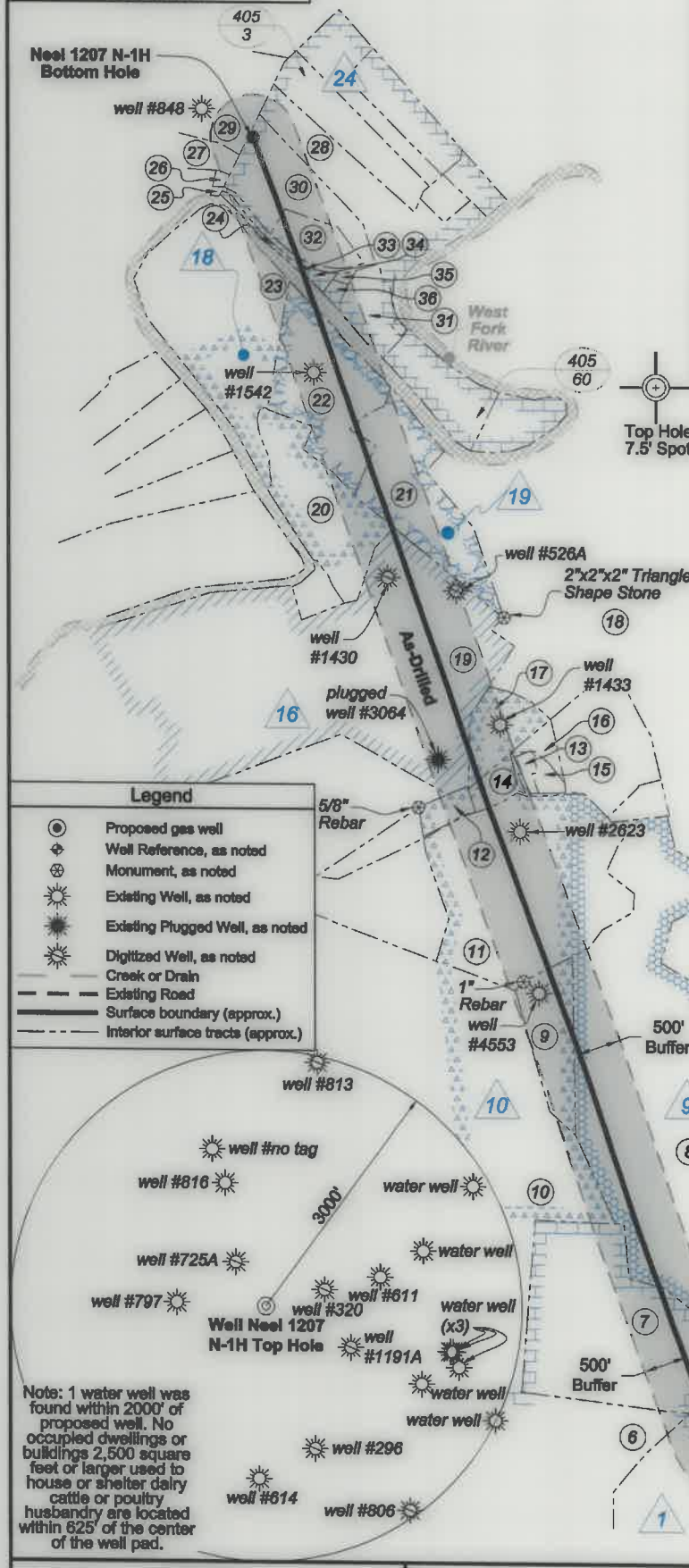
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

Notes: Well No. Neel 1207 N-1H
West Virginia Coordinate
System of 1927, North Zone
based upon Differential
GPS Measurements.
Top Hole coordinates
Latitude: 39°09'07.87"
Longitude: 80°24'10.48"
Bottom Hole coordinates
Latitude: 39°11'32.41"
Longitude: 80°25'52.58"
UTM Zone 17, NAD 1983
Top Hole Coordinates
N: 4,333,845.098m
E: 651,608.325m
Bottom Hole Coordinates
N: 4,338,284.790m
E: 549,129.586m
Plat orientation and corner and
well references are based upon
the grid north meridian. Well
location references are based
upon the magnetic meridian.

4,139' to Bottom Hole
BTM LATITUDE 39 - 12 - 30
TOP LATITUDE 39 - 10 - 00



TOP LONGITUDE 80 - 22 - 30
BTM LONGITUDE 80 - 25 - 00
5,826' to Bottom Hole
5,275' to Top Hole



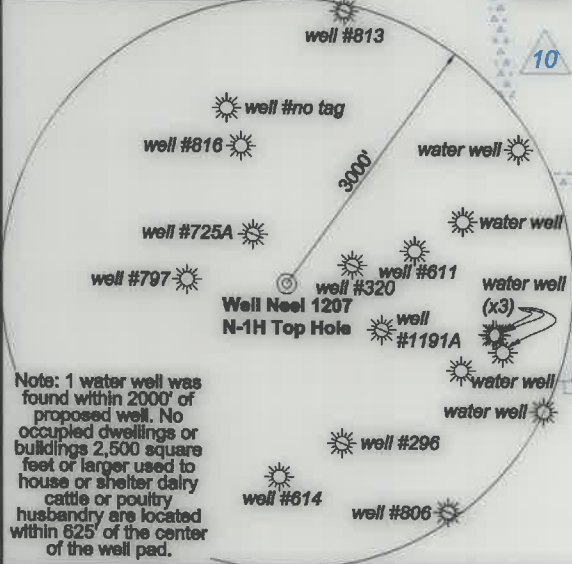
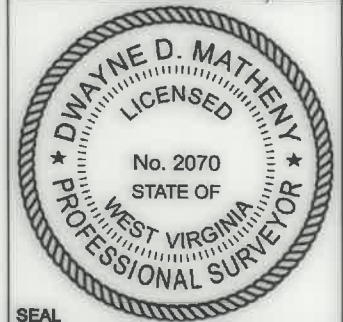
Notes:
Well No. Neel 1207 N-1H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,823.48'
E: 1,809,734.98'
Landing Point Coordinates
N: 14,217,598.38'
E: 1,807,326.01'
Bottom Hole Coordinates
N: 14,233,189.35'
E: 1,801,602.65'



- 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.)

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

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



Note: 1 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 01°07' W	1,184.2'
L2	S 24°22' W	1,328.5'
L3	S 83°33' W	2,184.1'
L4	N 60°34' W	1,188.4'

FILE NO: 296-36-G-18
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

DATE: April 14 20 21
OPERATOR'S WELL NO. Neel 1207 N-1H
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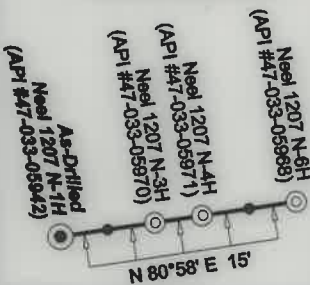
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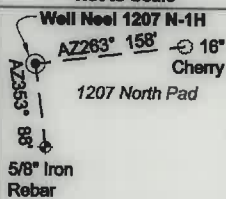


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Wellhead Layout (NTS)



Well Location References
 Not to Scale



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