

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

API 47-033-05935 County Harrison District Union
Quad West Milford, WV 7.5' Pad Name Nays 1209 Field/Pool Name Fink Kennedy
Farm name Nays Well Number Nays 1209 N2H
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 4333341.21 Easting 548091.57
Landing Point of Curve Northing 4333495.971 Easting 548388.119
Bottom Hole Northing 4338126.279 Easting 546755.823

Elevation (ft) 1007' 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 1/29/2019 Date drilling commenced 2/27/2019 Date drilling ceased 11/15/2019
Date completion activities began 12/3/2019 Date completion activities ceased 4/6/2020
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 200, 380 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 160,544 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:
SAW
6/30/2020

API 47-033 05935 Farm name Nays Well number Nays 1209 N2H

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"	100'	New	154.5 lbs/ft		N
Surface	26"	20"	602'	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	1688'	New	68 lbs/ft		Yes
Intermediate 2	12.25"	9.625"	2506'	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5	5.5"	23134'	New	23 lbs/ft P-11		Yes
Tubing	5.5	2.875"	7032.6'	New	6.5 lbs/ft J55		not cemented
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	Drilled In						
Surface	Class A	1155	15.6	1.2	1387	surface	8
Coal							
Intermediate 1	Class A	1449/444	15.4/15.9	1.24/1.17	1729/466	surface	24
Intermediate 2	Class A	775	15.6	1.19	960	surface	8
Intermediate 3							
Production	Class A	1276/3457	14.8/14.8	1.34/1.34	1712/2745	surface	8
Tubing							

Drillers TD (ft) 23170 Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 6726'

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 _____

API 47- 033 - 05935 Farm name Nays Well number Nays 1209 N2H

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					

Please insert additional pages as applicable.

HG Energy II Appalachia, LLC

Nays 1209 N-2H

Perforation Record

Stage #	Perforation Date	Perforation From Depth	Perforation To Depth	Number of Perforations	Formation
Sleeve / 1	1/21/2020	23027	22982	Sleeves	Marcellus
2	1/21/2020	22,948	22,780	49	Marcellus
3	1/21/2020	22,752	22,584	49	Marcellus
4	1/22/2020	22,556	22,388	49	Marcellus
5	1/23/2020	22,360	22,192	49	Marcellus
6	1/23/2020	22,164	21,996	49	Marcellus
7	1/24/2020	21,968	21,800	49	Marcellus
8	1/24/2020	21,772	21,604	49	Marcellus
9	1/25/2020	21,576	21,408	49	Marcellus
10	1/25/2020	21,380	21,212	49	Marcellus
11	1/25/2020	21,184	21,016	49	Marcellus
12	1/26/2020	20,988	20,820	49	Marcellus
13	1/26/2020	20,792	20,624	49	Marcellus
14	1/26/2020	20,596	20,428	49	Marcellus
15	1/27/2020	20,400	20,232	49	Marcellus
16	1/27/2020	20,204	20,036	49	Marcellus
17	1/27/2020	20,008	19,840	49	Marcellus
18	1/28/2020	19,812	19,644	49	Marcellus
19	1/28/2020	19,616	19,448	49	Marcellus
20	1/28/2020	19,420	19,252	49	Marcellus
21	1/29/2020	19,224	19,056	49	Marcellus
22	1/29/2020	19,028	18,860	49	Marcellus
23	1/29/2020	18,832	18,664	49	Marcellus
24	1/30/2020	18,636	18,468	49	Marcellus
25	1/30/2020	18,440	18,272	49	Marcellus
26	1/30/2020	18,244	18,076	49	Marcellus
27	1/31/2020	18,048	17,880	49	Marcellus
28	1/31/2020	17,852	17,684	49	Marcellus
29	1/31/2020	17,656	17,488	49	Marcellus
30	2/1/2020	17,460	17,292	49	Marcellus
31	2/1/2020	17,264	17,096	49	Marcellus
32	2/1/2020	17,068	16,900	49	Marcellus
33	2/2/2020	16,872	16,704	49	Marcellus
34	2/2/2020	16,676	16,508	49	Marcellus
35	2/2/2020	16,480	16,312	49	Marcellus
36	2/3/2020	16,284	16,116	49	Marcellus
37	2/3/2020	16,088	15,920	49	Marcellus
38	2/3/2020	15,892	15,724	49	Marcellus
39	2/4/2020	15,696	15,528	49	Marcellus
40	2/4/2020	15,500	15,332	49	Marcellus
41	2/4/2020	15,304	15,136	49	Marcellus

42	2/4/2020	15,108	14,940	49	Marcellus
43	2/5/2020	14,912	14,744	49	Marcellus
44	2/5/2020	14,716	14,548	49	Marcellus
45	2/6/2020	14,520	14,352	49	Marcellus
46	2/6/2020	14,324	14,156	49	Marcellus
47	2/6/2020	14,128	13,960	49	Marcellus
48	2/6/2020	13,932	13,764	49	Marcellus
49	2/7/2020	13,736	13,568	49	Marcellus
50	2/7/2020	13,540	13,372	49	Marcellus
51	2/7/2020	13,344	13,176	49	Marcellus
52	2/25/2020	13,148	12,980	49	Marcellus
53	2/25/2020	12,952	12,784	49	Marcellus
54	2/26/2020	12,756	12,588	49	Marcellus
55	2/27/2020	12,560	12,392	32	Marcellus
56	2/28/2020	12,364	12,196	32	Marcellus
57	2/29/2020	12,168	12,000	32	Marcellus
58-A	3/1/2020	11,972	11,804	30	Marcellus
58-B	3/1/2020	11,972	11773	60	Marcellus
59	3/2/2020	11,748	11,604	30	Marcellus
60	3/2/2020	11,580	11,412	30	Marcellus
61-A	3/3/2020	11,383	11,215	28	Marcellus
61-B	3/3/2020	11,383	11,185	56	Marcellus
62	3/4/2020	11,170	11,017	28	Marcellus
63-A	3/5/2020	10987	10819	28	Marcellus
63-B	3/5/2020	10987	10789	56	Marcellus
64	3/6/2020	10780	10621	28	Marcellus
65	3/6/2020	10591	10423	28	Marcellus
66-A	3/7/2020	10393	10225	28	Marcellus
66-B	3/8/2020	10393	10195	56	Marcellus
67	3/8/2020	10167	10023	28	Marcellus
68	3/8/2020	9997	9829	21	Marcellus
69-A	3/9/2020	9799	9631	28	Marcellus
69-B	3/10/2020	9799	9605	56	Marcellus
70	3/10/2020	9600	9433	24	Marcellus
71	3/10/2020	9403	9235	24	Marcellus
72A	3/11/2020	9205	9037	28	Marcellus
72B	3/11/2020	9205	8990	56	Marcellus
73	3/12/2020	8965	8821	28	Marcellus
74	3/12/2020	8796	8640	28	Marcellus
75	3/13/2020	8611	8443	28	Marcellus
76	3/13/2020	8413	8245	28	Marcellus
77	3/13/2020	8215	8047	28	Marcellus
78	3/14/2020	8017	7849	28	Marcellus
79	3/14/2020	7819	7651	28	Marcellus
80	3/14/2020	7621	7453	28	Marcellus
81	3/14/2020	7423	7255	28	Marcellus
82	3/15/2020	7225	7057	28	Marcellus

HG Energy II Appalachia, LLC

Nays 1209 N-2H

Stimulation Record

Stage #	Date	Average Pump Rate (BPM)	Average Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve / 1	1/21/2020	71.1	9169	9712	4393	14730	3193
2	1/21/2020	77.6	9,326	9,825	5,383	322,400	9,808
3	1/21/2020	79.2	9,236	10,276	5,301	709,500	16,196
4	1/22/2020	80.4	9,219	9,759	5,060	408,700	10,957
5	1/23/2020	80.9	9,436	9,930	4,819	697,000	13,922
6	1/23/2020	76.4	8,963	9,339	5,056	705,660	13,895
7	1/24/2020	83.5	9,499	9,740	5,201	702,400	13,061
8	1/24/2020	79.8	9,351	9,753	5,660	663,580	12,827
9	1/25/2020	78.9	9,026	10,212	5,586	698,460	13,176
10	1/25/2020	81.4	9,461	10,080	5,367	705,400	14,154
11	1/25/2020	82.4	9,531	10,039	5,624	722,900	12,833
12	1/26/2020	84.4	9,718	10,399	5,333	727,900	12,769
13	1/26/2020	81.9	9,563	10,120	6,559	722,500	12,810
14	1/26/2020	86.6	9,655	10,309	5,345	724,660	11,616
15	1/27/2020	83.7	9,461	11,103	5,719	725,200	11,726
16	1/27/2020	85.3	9,244	9,781	5,562	724,600	11,838
17	1/27/2020	90.6	9,890	10,479	5,358	724,960	11,788
18	1/28/2020	89.0	9,784	10,880	5,666	724,600	11,670
19	1/28/2020	89.8	9,505	10,143	5,747	724,600	11,858
20	1/28/2020	90.2	9,769	10,440	5,338	725,280	11,681
21	1/29/2020	90.1	9,677	10,177	6,021	729,100	9,982
22	1/29/2020	82.7	9,543	10,714	5,155	725,500	11,874
23	1/29/2020	88.2	9,688	10,348	5,521	589,380	9,280
24	1/30/2020	88.4	9,674	10,080	5,471	725,500	12,432
25	1/30/2020	82.6	9,709	11,646	5,728	626,100	11,008
26	1/30/2020	86.5	9,557	10,324	5,100	724,300	12,607
27	1/31/2020	88.9	9,556	9,969	6,050	727,200	12,526
28	1/31/2020	81.3	9,206	11,906	5,388	596,400	11,394
29	1/31/2020	83.6	9,174	11,525	5,473	725,300	11,768
30	2/1/2020	88.3	9,460	9,873	5,629	725,200	13,004
31	2/1/2020	81.7	9,120	9,878	5,696	725,200	11,888
32	2/1/2020	82.5	9,323	10,293	6,323	725,500	11,664
33	2/2/2020	83.4	9,453	10,624	5,605	724,800	12,423
34	2/2/2020	90.7	9,398	9,753	6,266	737,300	9,846
35	2/2/2020	91.6	9,117	9,745	5,781	725,600	9,925
36	2/3/2020	98.6	10,019	10,532	5,654	726,700	9,866
37	2/3/2020	88.5	9,409	10,119	5,671	725,400	11,220
38	2/3/2020	85.8	9,642	10,826	5,832	298,600	7,504
39	2/4/2020	89.4	9,337	9,818	5,125	738,600	11,164
40	2/4/2020	93.0	9,425	10,048	5,757	725,500	11,185
41	2/4/2020	88.9	9,118	9,438	5,428	725,300	9,595
42	2/4/2020	89.7	9,317	9,917	6,304	735,500	10,056
43	2/5/2020	82.9	9,872	11,383	6,744	725,900	15,140
44	2/5/2020	89.6	8,920	9,815	5,175	729,300	9,657
45	2/6/2020	90.5	9,710	10,452	5,174	399,300	8,381
46	2/6/2020	82.5	9,995	10,974	4,936	651,700	11,573
47	2/6/2020	63.5	9,197	12,036	6,789	154,300	6,728
48	2/6/2020	85.4	8,758	10,432	4,677	725,500	11,430
49	2/7/2020	88.5	9,284	10,386	5,955	693,900	11,227
50	2/7/2020	85.7	8,970	10,007	5,529	725,500	10,705
51	2/7/2020	90.4	9,504	10,283	10,122	578,600	10,560
52	2/25/2020	85.8	9,050	10,676	5,810	582,560	8,864
53	2/25/2020	91.9	9,247	10,429	4,454	739,620	11,707
54	2/26/2020	92.6	9,409	10,154	4,801	740,060	9,875
55	2/27/2020	87.9	9,251	9,953	5,931	739,500	9,502
56	2/28/2020	85.5	9,379	9,743	6,572	734,200	9,664
57	2/29/2020	89.5	9,478	10,285	6,326	739,800	9,633
58-A	3/1/2020	52.1	9,933	11,707	5,564	2,000	3,253
58-B	3/1/2020	87.3	9,052	9,318	6,172	607,000	8,717
59	3/2/2020	85.3	8,967	10,151	4,851	739,760	11,711
60	3/2/2020	90.9	9,283	9,979	5,774	739,800	9,674

61-A	3/3/2020	31.6	9,065	11,871		4,000	2,776
61-B	3/3/2020	89.8	8,939	10,322	6,025	747,900	11,360
62	3/4/2020	82.9	9,326	10,100	6,569	690,100	11,343
63-A	3/5/2020	66.4	9,195	10,429	5,624	150300	7,390
63-B	3/5/2020	93.3	8,783	9,683	4,861	590300	10,651
64	3/6/2020	83.5	9,189	10,366	5,422	735400	12,332
65	3/6/2020	91.3	9,201	10,738	5,360	739800	10,529
66-A	3/7/2020					0	1,772
66-B	3/8/2020	91.6	9,224	10,265	5,674	740200	9,573
67	3/8/2020	92	9,171	10,312	5,896	745800	9,878
68	3/8/2020	89.6	9,031	9,680	5,567	740100	10,579
69-A	3/9/2020					6000	3,180
69-B	3/10/2020	90.5	8,909	9,200	5,305	157800	5,762
70	3/10/2020	81	8,696	10,171	5,243	740300	11,058
71	3/10/2020	83.9	8,543	9,634	5,278	717600	13,428
72A	3/11/2020	58.2	9,291	10,000		3000	2,471
72B	3/11/2020	87.9	8,364	9,928	5,615	649400	9,759
73	3/12/2020	90.6	8,821	9,588	5,760	719400	9,702
74	3/12/2020	85.8	8,919	9,963	5,175	653600	12,329
75	3/13/2020	89	8,684	9,354	5,890	727400	10,412
76	3/13/2020	91.6	8,865	9,865	6,050	749400	10,549
77	3/13/2020	90.7	8,780	9,789	5,056	739540	10,974
78	3/14/2020	89	8,290	10,142	5,036	740360	9,915
79	3/14/2020	98.6	8,385	9,640	5,466	739900	9,916
80	3/14/2020	98.7	8,838	10,074	5,174	686800	10,218
81	3/14/2020	98	8,999	10,228	5,690	569560	9,576
82	3/15/2020	78	9,909	10,795	5,613	400	2,523

API 47- 033 - 05935

Farm name Nays

Well number Nays 1209 N2H

PRODUCING FORMATION(S)

DEPTHS

Marcellus 6726-6765 TVD 7041-23170 MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3686 psi Bottom Hole _____ psi DURATION OF TEST 359 hrs

OPEN FLOW Gas 22584 mcfpd Oil _____ bpd NGL _____ bpd Water 960 bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP DEPTH IN FT NAME TVD	BOTTOM DEPTH IN FT TVD	TOP DEPTH IN FT MD	BOTTOM DEPTH IN FT MD	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	0		0		** See Attached **

Please insert additional pages as applicable.

Drilling Contractor Patterson Drilling
Address 2198 University Drive City Lemont Furnace State PA Zip 15456

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

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

Stimulating Company Stingray
Address 14201 Caliber Dr City Oklahoma City State OK Zip 73134

Please insert additional pages as applicable.

Completed by Diane White Telephone 304-420-1119
Signature Diane White Title _____ Date 6/17/2020

HG Energy II Appalachia, LLC
Nays 1209 N-2H
Lithology/Formation Information

Formation	Top Depth TMD	Top Depth TVD	Bottom Depth TMD	Bottom Depth TVD	Rock Type, Type of Fluid, Gas, Oil	Oil, Gas, Water
Coal	160	160	163	163	Coal	
Water show	200	200	202	202	1/2" stream, silty shale	Water
Water show	380	380	381	381	1/2" Stream, sand	Water
Coal	544	544	548	548	Coal	
3rd Salt sand	808	808	905	905	Sand/Siltstone	
Red rock	988	988	1054	1054	Red/brown Shale/Siltstone, sandstone	
Lower Maxton	1058	1058	1118	1118	Sandstone/ Siltstone	
Big lime	1158	1158	1229	1229	Limestone	
Big Injun	1229	1229	1344	1344	Sandstone	
Gantz	1541	1541	1594	1594	Sandstone	
50' sand	1644	1644	1682	1682	Sandstone	
30' Sand	1732	1732	1742	1742	Sandstone	
Gordon Stray	1790	1790	1856	1856	Sandstone	
Gordon Sand	1856	1856	1921	1921	Sandstone	
5th Sand	2051	2051	2076	2076	Sandstone	
Bayard	2126	2126	2138	2138	Sandstone	
Warren	2439	2439	2464	2464	Sandstone/Siltstone	
Speechley	2750	2750	2775	2775	siltstone/Shale	
Balltown	2967	2967	3003	3002	Sandstone	
Benson	4063	4053	4074	4063	Sandstone	
Rhinstreet	5890	5863	6244	6112	Shale	
Cashaqua	6244	6112	6483	6339	shale	
Middlesex	6483	6339	6580	6425	shale	
West River	6580	6425	6718	6535	shale	
Burket	6718	6535	6768	6571.5	shale	
Tully	6768	6571.5	6923	6672	Limestone	
Hamilton	6923	6672	7041	6726	shale	
Marcellus	7041	6726	23170	6765	shale	

BHL is located on topo map 6,262 feet south of Latitude: 39° 12' 30"
 SHL is located on topo map 6,821 feet south of Latitude: 39° 10' 00"

SEE PAGE 3 FOR SURFACE OWNERS

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

	LESSOR	DIST-TM/PAR
A	J. B. GUSMAN ET AL	20-444/11.2 20-444/11.3 20-444/11
B	EDMOND SOUTHERN ET UX	20-444/10 12-444/56 12-444/51
C	MARY S. DEISON ET AL	12-424/44
D	PAUL S. HORNOR ET AL	12-2002/29 12-424/43 12-424/43.1 12-424/43.4
E	G.W. RIFFER ET AL	12-424A/9 12-424A/8 12-424A/29 12-424A/30 12-424A/63 12-424A/46 12-424A/65 12-424A/47 12-424A/62 12-424/17.2
F	WM BURNSIDE ET AL	12-424/18.4 12-424/18 12-2001/47 12-2001/40 12-2001/41 12-2001/24.1 12-2001/25 12-2001/24 12-2001/3
G	WILLIAM AND RUHAMA BURSIDE	20-424/2 20-404/57
H	J P POST ET AL	20-404/43 20-404/43.5 20-404/43.6 20-404/31
J	JACOB MCCONKEY	20-404/30.1 20-404/6 20-404/6.1 20-404/5

**AS DRILLED
PLAT**

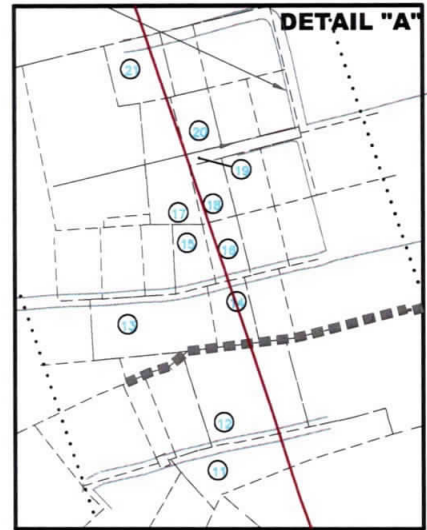
AS DRILLED
SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83(M)
N:4333341.21
E:548091.57
UTM 17-NAD83(FT)
N:14216970.30
E:1798197.10
LAT/LON DATUM-NAD83
LAT:39.147939
LON:-80.443458

AS DRILLED
BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83(M)
N:4338126.279
E:546755.823
UTM 17-NAD83(FT)
N:14232669.30
E:1793814.73
LAT/LON DATUM-NAD83
LAT:39.191129
LON:-80.458585

AS DRILLED
APPROX. LANDING POINT
UTM 17-NAD83(M)
N:4333495.971
E:548388.119
UTM 17-NAD83(FT)
N:14217478.03
E:1799170.02
LAT/LON DATUM-NAD83
LAT:39.149317
LON:-80.440015



BHL is located on topo map 65 feet west of Longitude: 80° 27' 30"
 SHL is located on topo map 7,598 feet west of Longitude: 80° 25' 00"



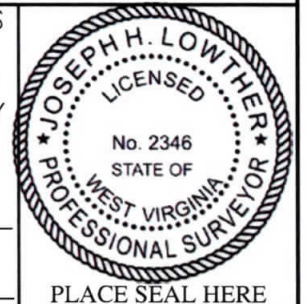
THRASHER

CIVIL • ENVIRONMENTAL • CONSULTING • FIELD SERVICES
 600 WHITE OAKS BOULEVARD, BRIDGEPORT, WV 26330
 PHONE (304) 624-4108 FAX (304) 624-7831

FILE #: 1209 N-2H
 DRAWING #: 1209 N-2H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

Signed: [Signature]
 R.P.E.: _____ L.L.S.: P.S. No. 2346



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25304



DATE: MAY 20, 2020
 OPERATOR'S WELL #: 1209 N-2H
 API WELL #: 47 33 05935
 STATE COUNTY PERMIT

Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

WATERSHED: MIDDLE WEST FORK CREEK ELEVATION: 1,007'±

COUNTY/DISTRICT: HARRISON / UNION QUADRANGLE: WEST MILFORD, WV 7.5'

SURFACE OWNER: HG ENERGY II APPALACHIA, LLC ACREAGE: 95.06±

OIL & GAS ROYALTY OWNER: ANN COVINGTON, ET AL ACREAGE: 887.72±

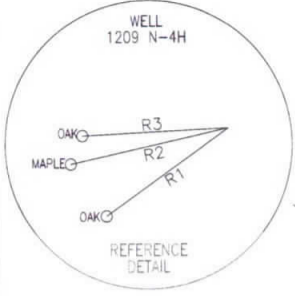
DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE
 PLUG OFF OLD FORMATION PERFORATE NEW FORMATION PLUG & ABANDON
 CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY): _____

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: TVD: 6,765'± TMD: 23,170'±

WELL OPERATOR HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT DIANE C. WHITE
 Address 5260 DUPONT ROAD Address 5260 DUPONT ROAD
 City PARKERSBURG State WV Zip Code 26101 City PARKERSBURG State WV Zip Code 26101

AS DRILLED PLAT

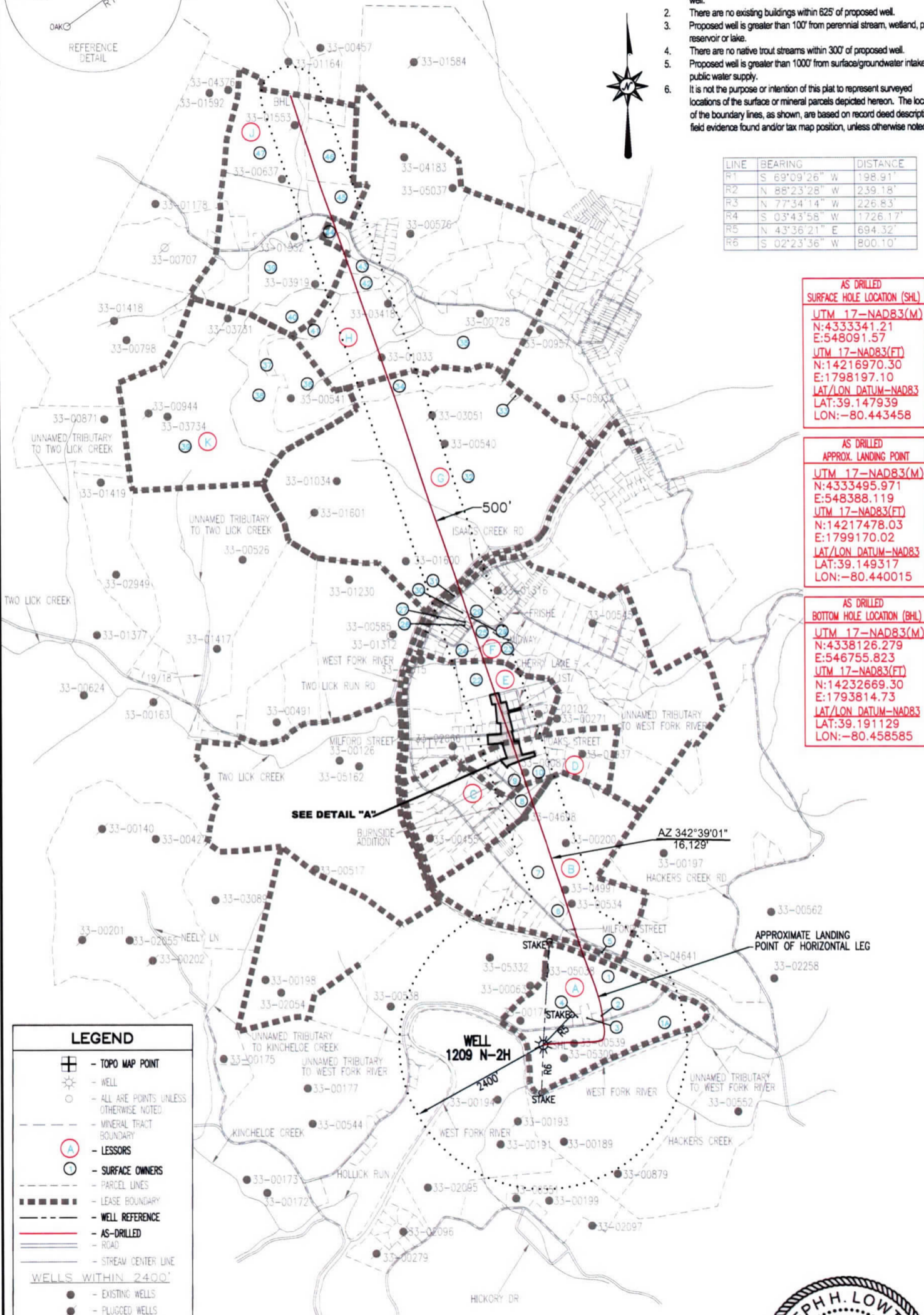
1209 N-2H PAGE 2 OF 3



NOTES:

1. There are no water wells or developed springs within 250' of proposed well.
2. There are no existing buildings within 625' of proposed well.
3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
4. There are no native trout streams within 300' of proposed well.
5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted herein. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.

LINE	BEARING	DISTANCE
R1	S 69°09'26" W	198.91'
R2	N 88°23'28" W	239.18'
R3	N 77°34'14" W	226.83'
R4	S 03°43'58" W	1726.17'
R5	N 43°36'21" E	694.32'
R6	S 02°23'36" W	800.10'



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 LAT:39.191129
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LEGEND

- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED
- MINERAL TRACT BOUNDARY
- LESSORS
- SURFACE OWNERS
- PARCEL LINES
- LEASE BOUNDARY
- WELL REFERENCE
- AS-DRILLED
- ROAD
- STREAM CENTER LINE

WELLS WITHIN 2400'

- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS

API WELL #: 47 33 05935
 STATE COUNTY PERMIT



1209 N-2H

PAGE 3 OF 3

AS DRILLED
PLAT

	SURFACE OWNER	DIST-TM/PAR
1	DANNY LEE & ALICIA A. STICKEL	P/O 20-444/11.2
1A	HG ENERGY II APPALACHIA, LLC	P/O 20-444/11.2
2	HG ENERGY II APPALACHIA, LLC	20-444/11.3
3	AARON C. & CHRISTINA P. MEDINA	20-444/11
4	HG ENERGY II APPALACHIA, LLC	20-444/11.1
5	CHRISTOPHER WAYNE TITUS	20-444/10
6	SHARON WELCH	12-444/56
7	WAYNE A. RITTER & JESSICA WRAY	12-444/51
8	JEFFREY R. BENNETT	12-424/44
9	RICHARD HARNER & PATRICIA LYNN LOWTHER	12-2002/29
10	RICHARD HARNER & PATRICIA LYNN LOWTHER	12-424/43
11	RICHARD HARNER & PATRICIA LYNN LOWTHER	12-424/43.1
12	JEREMIAH G. & JACLYN E. SEARS	12-424/43.4
13	*RALPH ELDON & CATHY F. FREEMAN	12-424A/9
14	JOHN D. RENZELLI & SHELBY L. GARRETT	12-424A/8
15	BRYAN K. BYRD	12-424A/29
16	BRYAN K. & CRYSTAL L. BYRD	12-424A/30
17	DANNY W. & SUSAN JAMES	12-424A/63
18	DANNY W. & SUSAN JAMES	12-424A/46
19	*DANNY W. & SUSAN JAMES & RAY W. & AULDA JAMES	12-424A/65
20	*MARK D. REASER & M. E. JARRETT-REASER	12-424A/47
21	DEBORAH R. JENKINS	12-424A/62
22	DARREN L. & ANGELA C. BENNETT	12-424/17.2
23	H. EUGENE CURREY	12-424/18.4
24	VICKIE OFFIELD	12-424/18
25	ELLA L. & GARY J. SOUTHERN	12-2001/47
26	BENJAMIN E. & LADONNA M. HECKERT	12-2001/40
27	BENJAMIN E. & LADONNA M. HECKERT	12-2001/41
28	KENNETH C. & MARY ANN GODBEY	12-2001/24.1
29	APRIL R. MITCHELL	12-2001/25
30	LAKEVIEW LOAN SERVICE LLC C/O ZACHARY A CAMPBELL ETAL*20	12-2001/24
31	APRIL R. MITCHELL	12-2001/3
32	WILLIAM MICHAEL MCDONALD	20-424/2
33	GREATER HARRISON COUNTY PUBLIC SERVICE DISTRICT	20-404/58
34	PERRY LEE & DEBORAH JEAN POST	20-404/57
35	PERRY LEE & DEBORAH JEAN POST	20-404/43
36	PERRY LEE & DEBORAH JEAN POST	20-404/41
37	PERRY LEE & DEBORAH JEAN POST	20-404/40.1
38	PERRY LEE & DEBORAH JEAN POST	20-404/40
39	AL-N-EL FARMS LLC	20-404/30.1
40	PERRY LEE & DEBORAH JEAN POST	20-404/30
41	PERRY LEE & DEBORAH JEAN POST	20-404/42
42	RICHARD E. & MICHELLE M. CASTO	20-404/43.5
43	ROGER L. & MELISSA ANN COFFINDAFFER	20-404/43.6
44	HOMAS N. & PLEASIE M. TURNER T	20-404/31
45	ROBERT N. & REGINA C. HARDMAN	20-404/6
46	MARGARET J. JENKINS	20-404/6.1
47	CONSOLIDATION COAL COMPANY	20-404/5

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* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

API WELL #: 47 33 05935
 STATE COUNTY PERMIT

THRASHER

MAY 20, 2020

CIVIL ENVIRONMENTAL • CONSULTING FIELD SERVICES
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