

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

API 47-033-05948 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 S-12H
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 4333365.446 Easting 548190.815
Landing Point of Curve Northing 4333645.396 Easting 548966.960
Bottom Hole Northing 4329308.086 Easting 550585.887

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 3/28/2019 Date drilling commenced 4/26/2019 Date drilling ceased 12/6/2019
Date completion activities began 1/11/2020 Date completion activities ceased 4/10/2020
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 110 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:

SDW
6/30/2020

API 47-033 - 05948 Farm name Nays Well number Nays 1209 S-12H

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"	751	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	1687	New	68 lbs/ft		Yes
Intermediate 2	12.25"	9.625"	2507	New	40 lbs/ft J55		Yes
Intermediate 3							
Production	8.5	5.5	22924	New	23 lbs/ft P-11		Yes
Tubing	5.5	2.875	7737	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	1267	15.6	1.2	1600	Surface	8
Coal							
Intermediate 1	Class A	1550/427	16.0/16.4	1.16/1.12	1797/477	Surface	24
Intermediate 2	Class A	775	15.6	1.19	921	Surface	8
Intermediate 3							
Production	Class A	1278/3171	14.8/14.8	1.34/1.34	1712/4250	Surface	8
Tubing							

Drillers TD (ft) 22950 Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 6767

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

Nays 1209 S-12H

Perforation Record

Stage #	Date	Perforation From Depth	Perforation To Depth	Number of Perforations	Formation
Sleeve / 1	2/11/2020	22819	22775	Sleeves	Marcellus
2	2/12/2020	22,741	22,573	49	Marcellus
3	2/12/2020	22,545	22,377	49	Marcellus
4	2/12/2020	22,349	22,181	49	Marcellus
5	2/13/2020	22,153	21,985	49	Marcellus
6	2/13/2020	21,957	21,789	49	Marcellus
7	2/14/2020	21,761	21,593	49	Marcellus
8	2/15/2020	21,565	21,397	49	Marcellus
9	2/15/2020	21,369	21,201	49	Marcellus
10	2/15/2020	21,173	21,005	49	Marcellus
11	2/16/2020	20,977	20,809	49	Marcellus
12	2/16/2020	20,781	20,613	49	Marcellus
13	2/17/2020	20,585	20,417	49	Marcellus
14	2/17/2020	20,389	20,221	49	Marcellus
15	2/17/2020	20,193	20,025	49	Marcellus
16	2/17/2020	19,997	19,829	49	Marcellus
17	2/18/2020	19,801	19,633	49	Marcellus
18	2/19/2020	19,605	19,437	49	Marcellus
19	2/19/2020	19,409	19,241	49	Marcellus
20	2/20/2020	19,213	19,045	49	Marcellus
21	2/20/2020	19,017	18,849	49	Marcellus
22	2/20/2020	18,821	18,653	49	Marcellus
23	2/21/2020	18,625	18,457	49	Marcellus
24	2/21/2020	18,429	18,261	49	Marcellus
25	3/3/2020	18,233	18,065	49	Marcellus
26A	3/3/2020	18,037	17,869	49	Marcellus
26B	3/4/2020	18,037	17,824	98	Marcellus
27	3/4/2020	17,799	17,667	49	Marcellus
28	3/5/2020	17,645	17,477	49	Marcellus
29	3/5/2020	17,449	17,281	49	Marcellus
30	3/6/2020	17,253	17,085	49	Marcellus
31	3/6/2020	17,057	16,889	49	Marcellus
32	3/6/2020	16,861	16,693	49	Marcellus
33	3/7/2020	16,665	16,497	49	Marcellus
34	3/7/2020	16,469	16,301	49	Marcellus
35	3/7/2020	16,273	16,105	49	Marcellus
36	3/8/2020	16,077	15,909	49	Marcellus
37	3/8/2020	15,881	15,713	49	Marcellus
38	3/8/2020	15,685	15,517	49	Marcellus
39	3/9/2020	15,489	15,321	49	Marcellus
40	3/9/2020	15,293	15,125	49	Marcellus
41	3/10/2020	15,097	14,929	49	Marcellus
42	3/10/2020	14,901	14,733	49	Marcellus
43A	3/10/2020	14,705	14,537	49	Marcellus
43B	3/10/2020	14,705	14,496	98	Marcellus
44	3/14/2020	14,468	14,336	49	Marcellus
45	3/15/2020	14,313	14,145	49	Marcellus
46	3/15/2020	14,117	13,949	49	Marcellus
47	3/15/2020	13,921	13,753	49	Marcellus
48	3/15/2020	13,725	13,557	49	Marcellus
49	3/16/2020	13,529	13,361	49	Marcellus
50	3/16/2020	13,333	13,165	49	Marcellus
51	3/16/2020	13,137	12,969	49	Marcellus
52	3/17/2020	12,941	12,773	49	Marcellus
53	3/17/2020	12,745	12,577	49	Marcellus
54	3/17/2020	12,549	12,381	49	Marcellus
55	3/18/2020	12,353	12,185	49	Marcellus
56	3/18/2020	12,158	11,990	49	Marcellus
57	3/18/2020	11,964	11,796	49	Marcellus
58	3/18/2020	11,770	11,602	49	Marcellus
59	3/19/2020	11,576	11,408	49	Marcellus
60	3/19/2020	11,382	11,214	49	Marcellus
61	3/19/2020	11,188	11,020	49	Marcellus
62	3/19/2020	10,994	10,826	49	Marcellus
63	3/20/2020	10800	10632	49	Marcellus
64	3/20/2020	10606	10438	49	Marcellus
65	3/20/2020	10412	10244	49	Marcellus
66	3/20/2020	10218	10050	49	Marcellus
67	3/21/2020	10024	9856	49	Marcellus
68	3/21/2020	9830	9662	49	Marcellus
69	3/21/2020	9636	9468	49	Marcellus
70	3/21/2020	9442	9274	49	Marcellus
71	3/22/2020	9248	9080	49	Marcellus
72	3/22/2020	9054	8886	49	Marcellus
73	3/22/2020	8860	8692	49	Marcellus
74	3/22/2020	8666	8498	49	Marcellus
75	3/22/2020	8472	8304	49	Marcellus
76	3/23/2020	8278	8110	49	Marcellus
77	3/23/2020	8084	7916	49	Marcellus
78	3/23/2020	7888	7748	42	Marcellus

HG Energy II Appalachia, LLC

Nays 1209 S-12H

Stimulation Record

Stage #	Date	Average Pump Rate (BPM)	Average Treatment Pressure (PSI)	Maximum Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve / 1	2/11/2020	26.4	9679	10119	5516	0	1159
2	2/12/2020	79.7	9,275	1,608	4,805	700,000	14,038
3	2/12/2020	80.8	9,261	9,750	5,126	700,680	14,420
4	2/12/2020	81.4	9,199	9,854	4,809	711,500	13,986
5	2/13/2020	79.9	8,890	9,766	5,360	705,520	12,951
6	2/13/2020	81.1	9,241	9,518	5,180	666,440	12,491
7	2/14/2020	79.3	8,816	9,161	5,200	700,160	15,691
8	2/15/2020	82.9	8,941	9,285	4,987	700,760	11,672
9	2/15/2020	80.3	8,674	9,202	4,958	709,300	11,745
10	2/15/2020	82.8	9,087	9,575	5,160	708,560	11,759
11	2/16/2020	82.1	9,300	9,948	4,654	499,260	10,417
12	2/16/2020	80.2	8,896	9,468	5,516	710,420	11,988
13	2/17/2020	83.1	9,102	9,438	5,026	721,220	10,016
14	2/17/2020	81.7	9,239	9,714	5,260	721,140	12,511
15	2/17/2020	80.0	9,292	9,748	4,630	721,340	12,202
16	2/17/2020	82.9	9,188	9,691	5,017	720,740	12,184
17	2/18/2020	81.9	9,134	9,948	5,584	720,000	10,024
18	2/19/2020	79.6	9,421	10,181	5,318	714,580	12,055
19	2/19/2020	81.6	9,384	10,087	5,420	677,220	12,257
20	2/20/2020	81.8	9,363	10,145	5,263	665,720	9,692
21	2/20/2020	81.0	9,576	10,480	4,873	720,160	12,355
22	2/20/2020	79.9	9,257	10,081	4,826	720,260	12,153
23	2/21/2020	69.5	9,357	10,625	4,483	722,000	13,810
24	2/21/2020	75.7	9,638	10,707	5,270	720,520	10,010
25	3/3/2020	82.2	9,042	9,941	4,950	720,220	13,285
26A	3/3/2020	80.5	9,110	10,741	5,290	182,620	6,524
26B	3/4/2020	90.9	9,544	10,027	5,689	540,240	7,718
27	3/4/2020	87.0	9,128	9,859	5,124	581,920	11,463
28	3/5/2020	79.5	9,178	9,460	5,120	712,240	11,969
29	3/5/2020	86.9	9,381	10,678	4,587	709,330	12,336
30	3/6/2020	92.1	9,154	9,840	5,487	711,060	11,693
31	3/6/2020	85.8	8,859	9,348	5,718	712,420	11,750
32	3/6/2020	79.5	9,197	10,275	5,100	710,180	12,063
33	3/7/2020	88.5	9,487	10,330	5,240	681,060	9,728
34	3/7/2020	87.2	9,270	9,958	5,673	622,620	9,544
35	3/7/2020	82.3	8,802	9,373	5,910	686,280	9,327
36	3/8/2020	85.7	9,430	9,924	5,420	631,520	11,353
37	3/8/2020	84.0	8,643	9,480	5,264	710,280	11,801
38	3/8/2020	87.0	8,865	9,659	5,580	711,400	12,269
39	3/9/2020	93.2	9,254	10,243	5,450	710,490	10,147
40	3/9/2020	89.0	8,906	9,405	4,698	710,120	11,985
41	3/10/2020	84.0	9,334	10,243	5,240	702,300	13,093
42	3/10/2020	87.9	9,197	9,638	5,073	710,560	11,734
43A	3/10/2020	85.8	9,441	9,848	5,360	213,060	9,016
43B	3/10/2020	90.8	9,144	10,151	5,731	158,570	5,674
44	3/14/2020	91.2	8,880	9,320	4,360	710,360	11,598
45	3/15/2020	94.6	8,859	9,380	4,450	646,500	13,586
46	3/15/2020	92.8	8,865	9,376	4,640	720,100	13,316
47	3/15/2020	92.0	8,966	9,825	4,231	674,120	12,903
48	3/15/2020	89.7	8,757	9,725	4,780	710,220	11,680
49	3/16/2020	89.6	9,160	10,349	4,950	710,820	14,128
50	3/16/2020	92.8	9,588	10,271	5,215	711,460	11,611
51	3/16/2020	92.8	9,101	9,894	5,174	662,800	11,284
52	3/17/2020	94.4	9,320	9,929	5,535	710,100	11,692
53	3/17/2020	90.2	9,039	9,831	4,707	710,040	13,229
54	3/17/2020	90.2	9,092	9,608	4,801	740,580	10,045
55	3/18/2020	91.7	9,185	9,836	4,680	710,000	13,092
56	3/18/2020	91.4	9,014	9,457	5,146	638,040	9,324
57	3/18/2020	92.6	8,677	9,371	4,855	710,540	9,834
58	3/18/2020	94.5	8,614	9,174	4,756	707,220	11,493
59	3/19/2020	94.7	8,299	9,143	5,040	699,850	9,816
60	3/19/2020	94.5	8,568	9,373	4,546	710,020	13,218
61	3/19/2020	93.4	8,281	8,907	4,303	710,020	9,786
62	3/19/2020	93.6	8,424	8,843	5,530	708,720	11,348
63	3/20/2020	94.9	8,390	9,122	5,077	710380	9,860
64	3/20/2020	95.3	8,084	8,291	4,424	709980	9,827
65	3/20/2020	94.1	7,990	8,420	4,060	710600	9,643
66	3/20/2020	95.3	8,081	8,350	5,228	710020	9,570
67	3/21/2020	93.7	8,116	8,722	5,271	710740	11,173
68	3/21/2020	96.3	7,683	8,049	5,150	712820	9,768
69	3/21/2020	92.8	8,129	9,249	4,760	710520	11,373
70	3/21/2020	93.4	8,131	8,725	5,321	710280	9,625
71	3/22/2020	89.3	8,740	10,025	4,380	710880	13,785
72	3/22/2020	94.6	8,043	8,765	4,848	690240	9,710
73	3/22/2020	93.5	8,364	9,143	4,058	690400	11,056
74	3/22/2020	95.3	7,985	8,447	4,957	690040	9,563
75	3/22/2020	90.5	8,224	9,229	4,740	690140	10,935
76	3/23/2020	93.9	8,357	8,895	5,501	687040	9,542
77	3/23/2020	94.3	8,291	9,073	5,198	719660	11,130
78	3/23/2020	86.9	7,431	8,660	5,415	703280	13,405

API 47- 033 - 05948 Farm name Nays Well number Nays 1209 S-12H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6766-6832</u> TVD	<u>7734-22950</u> MD
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 3579 psi Bottom Hole _____ psi DURATION OF TEST 385 hrs

OPEN FLOW Gas 19488 mcfpd Oil _____ bpd NGL _____ bpd Water 2040 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)
	<u>0</u>		<u>0</u>		** 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 S-12H
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
Water show	110	110	111	111	Damp, sand	Water
Coal	160	160	163	163	Coal	
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	3006	3002	Sandstone	
Benson	4312	4047	4312	4057	Sandstone	
Rhinestreet	6147	5609	6835	6159	Shale	
Cashaqua	6835	6159	7122	6386	shale	
Middlesex	7122	6386	7230	6469	shale	
West River	7230	6469	7372	6570	shale	
Burket	7372	6570	7424	6405	shale	
Tully	7424	6405	7600	6707	Limestone	
Hamilton	7600	6707	7734	6766	shale	
Marcellus	7734	6766	22950	6832	shale	

BHL is located on topo map 5,146 feet south of Latitude: 39° 07' 30"
 SHL is located on topo map 6,743 feet south of Latitude: 39° 10' 00"

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

SEE PAGE 3 FOR SURFACE OWNERS

AS DRILLED
PLAT



AS DRILLED
SURFACE HOLE LOCATION (SHL)
 UTM 17-NAD83(M)
 N:4333365.446
 E:548190.815
 UTM 17-NAD83(FT)
 N:14217049.80
 E:1798522.70
 LAT/LON DATUM-NAD83
 LAT:39.148152
 LON:-80.442308

AS DRILLED
APPROX. LANDING POINT
 UTM 17-NAD83(M)
 N:4333645.396
 E:548966.960
 UTM 17-NAD83(FT)
 N:14217968.27
 E:1801069.10
 LAT/LON DATUM-NAD83
 LAT:39.150631
 LON:-80.433306

AS DRILLED
BOTTOM HOLE LOCATION (BHL)
 UTM 17-NAD83(M)
 N:4329308.086
 E:550585.887
 UTM 17-NAD83(FT)
 N:14203738.28
 E:1806380.53
 LAT/LON DATUM-NAD83
 LAT:39.111456
 LON:-80.414895



	LESSOR	LEASE NO.	DIST-TM/PAR
A	J. B. GUSMAN ET AL	FK020606	20-444/11.2 12-444/13 12-444/14 12-444/21.1 12-444/21.2 12-444/21 12-444/22 20-444-11.3 20-444-11 20-444-11.1
B	W. L. HUGHES ET AL	FK020607	12-445/16 12-445/17 12-445/18.1
C	HOWARD NEELY	FK014008	12-445/30.3 12-445/30.1 12-445/30.2 12-445/44 12-445/2 12-445/30.5 12-465/1
D	H. S. BAILEY ET AL	FK013035	12-465/1
E	ISAAC JACKSON	LC009807	4-8B/4 4-8B/5 4-8C/29 4-8C/33.2 4-8C/34 4-10/67

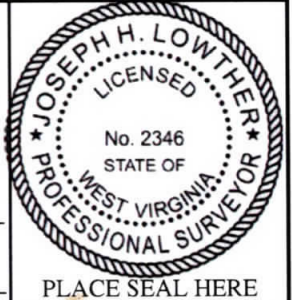
BHL is located on topo map 11,249 feet west of Longitude: 80° 22' 30"
 SHL is located on topo map 7,272 feet west of Longitude: 80° 25' 00"



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

FILE #: 1209 S-12H
 DRAWING #: 1209 S-12H
 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 21, 2020
 OPERATOR'S WELL #: 1209 S-12H
 API WELL #: 47 33 05948
 STATE COUNTY PERMIT

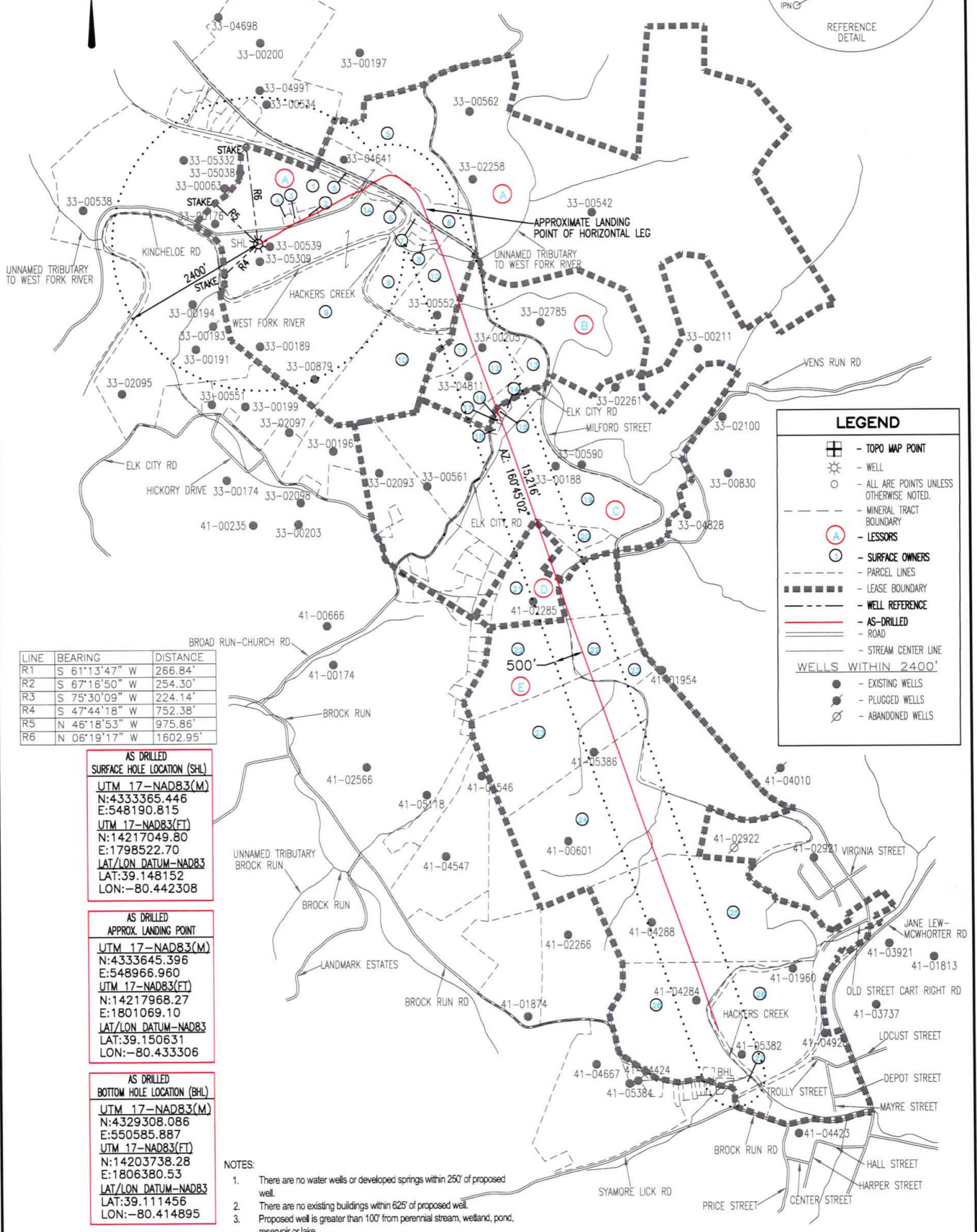
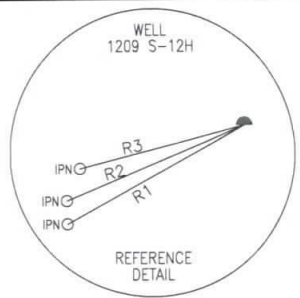
Well Type: Oil Waste Disposal Production Deep
 Gas Liquid Injection Storage Shallow

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: 1147.196±

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: 6,832'± TMD: 22,950'±
 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 1209 S-12H PLAT PAGE 2 OF 3



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

LINE	BEARING	DISTANCE
R1	S 61°13'47" W	266.84'
R2	S 67°16'50" W	254.30'
R3	S 75°30'09" W	224.14'
R4	S 47°44'18" W	752.38'
R5	N 46°18'53" W	975.86'
R6	N 06°19'17" W	1602.95'

AS DRILLED SURFACE HOLE LOCATION (SHL)

UTM 17-NAD83(M)
N:4333365.446
E:548190.815

UTM 17-NAD83(FT)
N:14217049.80
E:1798522.70

LAT/LON DATUM-NAD83
LAT:39.148152
LON:-80.442308

AS DRILLED APPROX. LANDING POINT

UTM 17-NAD83(M)
N:4333645.396
E:548966.960

UTM 17-NAD83(FT)
N:14217968.27
E:1801069.10

LAT/LON DATUM-NAD83
LAT:39.150631
LON:-80.433306

AS DRILLED BOTTOM HOLE LOCATION (BHL)

UTM 17-NAD83(M)
N:4329308.086
E:550585.887

UTM 17-NAD83(FT)
N:14203738.28
E:1806380.53

LAT/LON DATUM-NAD83
LAT:39.111456
LON:-80.414895

- NOTES:
- There are no water wells or developed springs within 250' of proposed well.
 - There are no existing buildings within 625' of proposed well.
 - Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
 - There are no native trout streams within 300' of proposed well.
 - Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
 - It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. 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.

API WELL #: 47 33 05948

STATE COUNTY PERMIT

MAY 21, 2020

THRASHER

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



**AS DRILLED
PLAT**

**1209 S-12H
PAGE 3 OF 3**

	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	ROBERT J. BRIGHTBILL	12-444/14
6	WILLIAM BRUCE, JR. & CONNIE C. FERRELL	12-444/13
7	ERIC K. & SUSIE G. DECKER	12-444/21.1
8	ERIC K. & SUSIE G. DECKER	12-444/21.2
9	ERIC K. & SUSIE G. DECKER	12-444/21
10	ERIC K. & SUSIE G. DECKER	12-444/22
11	JOSEPH E. LAYMAN	12-445/16
12	JOSEPH E. LAYMAN	12-445/17
13	RICHARD WILLIAM, JR. & MICHELLE PITTMAN	12-445/18.1
14	WILLIAM & MARA WATSON	12-445/30.4
15	WILLIAM & MARA WATSON	12-445/30.3
16	*WILLIAM E. & MARA WATSON	12-445/30.1
17	CHARLES D. & JANET L. UTT	12-445/30.5
18	CHARLES D. & JANET L. UTT	12-445/30.2
19	DANNY K. & KATHERINE SNYDER	12-445/44
20	WILLIAM C. WHITE	12-465/2
21	WILLIAM C. WHITE	12-465/1
22	THOMAS E. & TERRI E. HAWKINS	4-8B/4
23	THOMAS E. & TERRIE HAWKINS	4-8B/5
24	C. D. COLE II	4-8C/29
25	C. D. COLE	4-8C/33.2
26	CHARLES D. COLE II	4-8C/34
27	CHARLES D. COLE II	4-10/23

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LAT/LON DATUM-NAD83
LAT:39.111456
LON:-80.414895

* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

API WELL #: 47 33 05948
STATE COUNTY PERMIT



MAY 21, 2020

