

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

API 47 - 041 - 05727 County Lewis District Freeman's Creek
Quad Camden & Big Isaac 7.5' Pad Name Burnside 1214 Field/Pool Name Fink/Kennedy
Farm name Burnside Well Number Burnside 1214 S5H
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 4330097.063 Easting 541244.720
Landing Point of Curve Northing 4329915 Easting 540959
Bottom Hole Northing 4324110.907 Easting 542985.431

Elevation (ft) 1159 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/WBM(gas storage)/ OBM
Barite, Lime, CaCL, base oil, Gilsonite, Asphalt, clay, Emulsifier, sulfatone, safevert FLG, safevert WA

Date permit issued 01/20/2022 Date drilling commenced 2/5/2022 Date drilling ceased 7/21/2022
Date completion activities began 9/3/2022 Date completion activities ceased 1/3/2023
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 120' Open mine(s) (Y/N) depths N
Salt water depth(s) ft Not observed Void(s) encountered (Y/N) depths N
Coal depth(s) ft 415,496,582,952,1052 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) No

APPROVED

Reviewed by:
[Signature]
08/09/2024
5-7-24

API 47-041 - 05727

Farm name Burnside

Well number Burnside 1214 S5H

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	157 lbs/ft		Drilled in
Surface	26"	20"	1103	New	94 lbs/ft J-55		Yes, 70 bbls to surface
Coal							
Intermediate 1	17.5"	13.375"	2066	New	68 lbs/ft J55		Yes, 93 bbls to surface
Intermediate 2	12.25"	9.625"	4654	New	40 lbs/ft		Yes, 69 bbls to surface
Intermediate 3							
Production	8.5	5.5	27854	New	23 lbs/ft P-110HP		Yes, 55 bbls to surface
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	1895	15.6	1.19	2255	Surface	8
Coal							
Intermediate 1	Class A	1438/772	16.0/16.4	1.15/1.11	1653.7/857	Surface	24
Intermediate 2	Class A	169/347/186	10.5/10.5/15.2	3.33/2.64/1.25	562.8/916/232.5	Surface	18
Intermediate 3							
Production	Class A	308/127/381/4333	13.5/13.5/15.5/14.8	1.82/1.67/1.48/1.33	560.5/212/564/5763	Surface	8
Tubing							

Drillers TD (ft) ²⁷⁸⁸⁸ _____

Loggers TD (ft) _____

Deepest formation penetrated Marcellus

Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) ⁵⁹⁹⁰ _____

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 every 3 joints to surface

13.375" casing: Bow spring centralizer on every joint

9.625" casing: Bow spring on first 2 joints then every 3rd joint to 100' from surface

5.5" casing: Centralizer run every 3 joints to top of curve (KOP) then centralizers placed every 5 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 _____

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API 47- 041 - 05727 Farm name Burnside Well number Burnside 1214 S5H

PERFORATION RECORD

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

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

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

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API 47- 041 - 05727 Farm name Burnside Well number Burnside 1214 S5H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6776-6875</u> TVD	<u>7682-27888</u> MD
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

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

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

<u>LITHOLOGY/ FORMATION</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>TOP</u>	<u>BOTTOM</u>	<u>DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H₂S, ETC)</u>
	<u>DEPTH IN FT NAME TVD</u>	<u>DEPTH IN FT TVD</u>	<u>DEPTH IN FT MD</u>	<u>DEPTH IN FT MD</u>	
	0		0		
		See Attached			

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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 Nextier
Address 8300 Route 119 North City Black Lick State PA Zip 15716

Please insert additional pages as applicable.

Completed by Diane White Telephone 304-420-1119
Signature Diane White Title _____ Date 02/29/2024

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

08/09/2024

HG Energy II Appalachia, LLC
Lithology Record
Burnside 1214 S-5H

Formation	Top MD	Top TVD	Base MD	Base TVD
coal	415	415	418	418
coal	496	496	499	499
coal	582	582	586	586
Gas sand	682	682	802	802
Salt sand	882	882	1281	1281
coal	952	952	955	955
Coal	1052	1052	1056	1056
Surface casing	1133	drill	1103	set
Maxton	1334	1334	1375	1375
Little Lime	1488	1488	1510	1510
Big Lime	1535	1535	1590	1590
Big Injun	1599	1599	1712	1712
Gantz (storage)	1884	1884	1942	1942
50' sand	1997	1997	2020	2020
Storage casing Drill to	2090	drill	2066	set
30' sand	2094	2094	2111	2111
Gordon Stray	2122	2122	2161	2161
Gordon Sand	2161	2161	2242	2242
Fourth Sand	2252	2252	2278	2278
Fifth Sand	2389	2389	2430	2429
Bayard	2467	2466	2490	2489
Warren	2763	2760	2795	2792
Speechley	3099	3092	3111	3104
Balltown	3211	3203	3277	3268
Bradford	3890	3874	3978	3960
Benson	4420	4395	4442	4416
Inter Casing	4684	drill	4654	set
Rhinstreet	6088	6025	6330	6252
Cashaqua	6330	6252	6628	6506
Middlesex	6628	6506	6737	6585
West River	6737	6585	6911	6685
Burket	6911	6685	6969	6710
Tully	6969	6710	7348	6802
Hamilton	7348	6802	7682	6875
Marcellus	7682	6875	27888	6776

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HG Energy II Appalachia, LLC
Burnside 1214 S-5H
Perforation Record

Stage #	Date	Perforation From Depth	Perforation to Depth	Number of Perforations	Formation
Sleeve/1	10/26/2022	27807	27783	2	Marcellus
2	10/27/2022	27749	27581	32	Marcellus
3	10/27/2022	27553	27385	32	Marcellus
4	10/27/2022	27357	27189	32	Marcellus
5	10/28/2022	27161	26993	32	Marcellus
6	10/28/2022	26965	26797	32	Marcellus
7	10/28/2022	26769	26601	32	Marcellus
8	10/29/2022	26573	26405	32	Marcellus
9	10/29/2022	26377	26209	32	Marcellus
10	10/29/2022	26181	26013	32	Marcellus
11	10/30/2022	25985	25817	32	Marcellus
12	10/30/2022	25789	25621	32	Marcellus
13	10/30/2022	25593	25425	32	Marcellus
14	10/31/2022	25397	25229	32	Marcellus
15	10/31/2022	25201	25033	32	Marcellus
16	10/31/2022	25005	24837	32	Marcellus
17	11/1/2022	24809	24641	32	Marcellus
18	11/1/2022	24613	24445	32	Marcellus
19	11/1/2022	24417	24249	32	Marcellus
20	11/1/2022	24221	24053	32	Marcellus
21	11/2/2022	24025	23857	32	Marcellus
22	11/2/2022	23829	23661	32	Marcellus
23	11/2/2022	23633	23465	32	Marcellus
24	11/3/2022	23437	23269	32	Marcellus
25	11/3/2022	23241	23073	32	Marcellus
26	11/4/2022	23045	22877	32	Marcellus
27	11/4/2022	22849	22681	32	Marcellus
28	11/5/2022	22653	22485	32	Marcellus
29	11/5/2022	22457	22289	32	Marcellus
30	11/5/2022	22261	22093	32	Marcellus
31	11/6/2022	22065	21897	32	Marcellus
32	11/6/2022	21869	21701	32	Marcellus
33	11/6/2022	21673	21505	32	Marcellus
34	11/7/2022	21477	21309	32	Marcellus
35	11/7/2022	21281	21113	32	Marcellus
36	11/8/2022	21085	20917	32	Marcellus
37	11/8/2022	20889	20721	32	Marcellus
38	11/8/2022	20693	20525	32	Marcellus
39	11/9/2022	20497	20329	32	Marcellus
40	11/9/2022	20301	20133	32	Marcellus
41	11/10/2022	20105	19937	32	Marcellus
42	11/10/2022	19909	19741	32	Marcellus
43	11/10/2022	19713	19545	32	Marcellus
44	11/11/2022	19517	19349	32	Marcellus
45	11/11/2022	19321	19153	32	Marcellus
46	11/12/2022	19125	18957	32	Marcellus
47	11/12/2022	18929	18761	32	Marcellus
48	11/13/2022	18733	18565	32	Marcellus
49	11/13/2022	18537	18369	32	Marcellus
50	11/13/2022	18341	18173	32	Marcellus
51	11/14/2022	18145	17977	32	Marcellus
52	11/14/2022	17949	17781	32	Marcellus
53	11/14/2022	17753	17585	32	Marcellus
54	11/15/2022	17557	17389	32	Marcellus

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55	11/15/2022	17361	17193	32	Marcellus
56	11/16/2022	17165	16997	32	Marcellus
57	11/16/2022	16969	16801	32	Marcellus
58	11/16/2022	16773	16605	32	Marcellus
59	11/17/2022	16577	16409	32	Marcellus
60	11/17/2022	16381	16213	32	Marcellus
61	11/17/2022	16185	16017	32	Marcellus
62	11/18/2022	15989	15821	32	Marcellus
63	11/18/2022	15793	15625	32	Marcellus
64	11/19/2022	15597	15429	32	Marcellus
65	11/19/2022	15401	15233	32	Marcellus
66	11/19/2022	15205	15037	32	Marcellus
67	11/20/2022	15009	14841	32	Marcellus
68	11/20/2022	14813	14645	32	Marcellus
69	11/21/2022	14617	14449	32	Marcellus
70	11/21/2022	14421	14253	32	Marcellus
71	11/21/2022	14225	14057	32	Marcellus
72	11/22/2022	14029	13861	32	Marcellus
73	11/22/2022	13833	13665	32	Marcellus
74	11/23/2022	13637	13469	32	Marcellus
75	11/23/2022	13441	13273	32	Marcellus
76	11/27/2022	13245	13077	32	Marcellus
77	11/27/2022	13049	12881	32	Marcellus
78	11/28/2022	12853	12685	32	Marcellus
79	11/28/2022	12657	12489	32	Marcellus
80	11/28/2022	12461	12293	32	Marcellus
81	11/29/2022	12265	12097	32	Marcellus
82	11/29/2022	12069	11901	32	Marcellus
83	11/30/2022	11873	11705	32	Marcellus
84	11/30/2022	11677	11509	32	Marcellus
85	11/30/2022	11481	11313	32	Marcellus
86	12/1/2022	11285	11117	32	Marcellus
87	12/1/2022	11089	10921	32	Marcellus
88	12/5/2022	10893	10725	32	Marcellus
89	12/5/2022	10697	10529	32	Marcellus
90	12/5/2022	10500	10332	32	Marcellus
91	12/6/2022	10302	10134	32	Marcellus
92	12/6/2022	10104	9936	32	Marcellus
93	12/6/2022	9906	9738	32	Marcellus
94	12/7/2022	9708	9540	32	Marcellus
95	12/7/2022	9510	9342	32	Marcellus
96	12/12/2022	9312	9144	32	Marcellus
97	12/12/2022	9114	8946	32	Marcellus
98	12/13/2022	8916	8748	32	Marcellus
99	12/14/2022	8718	8550	32	Marcellus
100	12/15/2022	8520	8352	32	Marcellus
101	12/16/2022	8322	8154	32	Marcellus
102	12/17/2022	8124	7956	32	Marcellus
103	12/16/2022	7926	7758	32	Marcellus

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HG Energy II Appalachia, LLC
Burnside 1214 S-5H
Stimulation Summary

Stage #	Date	Ave Pump Rate (BPM)	Ave Treatment Press (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve/1	10/26/2022	77.0	10090	12183	4372	270000	7,617
2	10/27/2022	79.1	10,095	6,160	5,829	700000	15,215
3	10/27/2022	80.0	10,205	6,013	4,713	700000	15,011
4	10/27/2022	84.0	10,420	6,065	6,028	700000	12,729
5	10/28/2022	84.0	10,210	6,114	5,442	700000	12,654
6	10/28/2022	85.0	10,408	5,980	4,661	700000	12,276
7	10/28/2022	84.0	10,279	6,241	5,903	705000	11,678
8	10/29/2022	85.0	10,302	5,508	4,782	705000	12,774
9	10/29/2022	89.0	10,429	5,707	4,702	705000	12,142
10	10/29/2022	85.0	10,406	5,621	5,308	705000	11,544
11	10/30/2022	84.0	10,376	6,612	4,708	576200	10,682
12	10/30/2022	84.0	10,400	7,341	4,918	705000	12,697
13	10/30/2022	85.0	10,306	6,131	6,166	705000	11,621
14	10/31/2022	83.0	10,139	6,445	5,811	705000	11,726
15	10/31/2022	88.0	10,399	6,823	4,985	705000	11,825
16	10/31/2022	87.0	10,544	5,823	6,844	705500	9,996
17	11/1/2022	79.0	9,968	6,730	5,644	705500	12,258
18	11/1/2022	84.0	10,326	7,121	5,450	705000	9,944
19	11/1/2022	88.0	10,402	6,567	5,137	705500	10,150
20	11/1/2022	90.0	10,663	6,169	5,716	705500	9,741
21	11/2/2022	89.0	10,383	6,618	6,031	705000	9,891
22	11/2/2022	85.0	10,456	4,495	5,050	477100	10,148
23	11/2/2022	91.0	10,770	5,695	5,602	705500	9,785
24	11/3/2022	87.0	10,432	5,945	5,482	691000	10,790
25	11/3/2022	90.0	10,417	2,564	6,184	690000	9,485
26	11/4/2022	90.0	10,536	6,092	5,336	690000	9,794
27	11/4/2022	88.0	10,502	5,598	5,284	649560	9,506
28	11/5/2022	91.0	10,517	6,164	6,282	690000	9,875
29	11/5/2022	87.0	10,480	5,840	4,762	581700	10,221
30	11/5/2022	90.0	10,465	6,070	4,838	690720	9,962
31	11/6/2022	88.0	10,298	5,439	4,737	568200	10,225
32	11/6/2022	92.0	10,457	6,033	5,887	691900	9,707
33	11/6/2022	89.0	10,317	6,388	5,760	690000	9,746
34	11/7/2022	88.0	10,497	5,620	6,258	690800	10,952
35	11/7/2022	86.0	10,137	5,218	6,334	690000	9,858
36	11/8/2022	87.0	10,213	6,463	5,162	656670	10,866
37	11/8/2022	91.0	10,407	5,521	5,301	690600	9,933
38	11/8/2022	87.7	9,983	6,056	4,874	690000	9,734
39	11/9/2022	90.0	10,414	5,700	10,500	621900	9,111
40	11/9/2022	88.0	9,901	5,963	4,536	690000	10,299
41	11/10/2022	90.0	10,207	6,352	4,936	619420	9,520
42	11/10/2022	88.0	10,132	5,690	5,241	653710	10,637
43	11/10/2022	91.0	9,989	5,853	4,476	690000	9,833
44	11/11/2022	93.0	10,146	5,887	5,000	690000	10,213
45	11/11/2022	89.6	9,968	6,254	5,242	677460	11,097
46	11/12/2022	89.0	10,561	6,079	5,654	690000	10,830
47	11/12/2022	90.4	10,054	6,846	4,114	690000	9,593
48	11/13/2022	92.0	10,037	6,921	4,859	690000	10,797
49	11/13/2022	94.0	10,072	5,887	4,873	690000	10,849
50	11/13/2022	90.0	10,162	6,643	3,984	690000	11,689
51	11/14/2022	96.0	10,160	6,899	4,792	690000	9,814
52	11/14/2022	97.0	10,334	6,067	4,907	690870	9,735
53	11/14/2022	96.0	10,168	4,742	5,070	700000	9,765
54	11/15/2022	94.0	10,176	6,276	5,037	700000	10,318

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55	11/15/2022	93.0	10,155	6,811	4,821	700000	10,482
56	11/16/2022	93.0	9,997	5,782	4,691	700000	9,782
57	11/16/2022	99.0	10,030	N/A	5,481	700000	9,814
58	11/16/2022	96.0	9,990	6,772	4,450	700000	9,617
59	11/17/2022	98.0	10,128	6,922	5,432	700000	9,863
60	11/17/2022	98.0	9,998	6,712	6,227	700000	10,614
61	11/17/2022	99.0	10,004	6,921	5,152	700000	9,866
62	11/18/2022	96.0	10,030	6,550	5,197	700000	9,739
63	11/18/2022	94.0	10,028	6,968	5,026	700000	9,694
64	11/19/2022	102.0	10,338	7,020	5,316	700000	10,021
65	11/19/2022	100.0	10,460	5,992	6,146	700000	11,948
66	11/19/2022	97.0	9,487	6,921	3,212	700000	9,782
67	11/20/2022	100.0	10,064	6,056	4,866	700000	11,265
68	11/20/2022	103.0	10,267	6,108	4,214	700000	9,797
69	11/21/2022	97.0	10,146	6,131	6,145	700000	9,831
70	11/21/2022	102.0	10,027	6,067	6,394	700000	9,615
71	11/21/2022	99.0	9,792	6,085	4,452	700000	9,804
72	11/22/2022	101.0	10,183	6,637	5,897	610300	10,908
73	11/22/2022	108.0	9,977	6,149	5,514	700000	9,845
74	11/23/2022	102.0	10,192	6,254	4,952	700000	9,638
75	11/23/2022	96.0	10,224	5,689	4,602	700000	11,269
76	11/27/2022	102.0	10,035	6,875	5,207	700000	9,807
77	11/27/2022	98.0	9,650	6,630	5,337	700000	9,858
78	11/28/2022	103.0	10,006	6,817	5,113	700000	9,758
79	11/28/2022	106.0	9,997	6,209	5,574	700000	10,021
80	11/28/2022	104.0	10,141	6,659	4,907	700000	9,684
81	11/29/2022	100.0	10,081	7,171	5,079	700000	10,263
82	11/29/2022	104.0	10,087	6,643	4,939	699500	9,664
83	11/30/2022	101.0	9,615	6,896	4,809	700000	9,353
84	11/30/2022	106.0	9,692	7,432	4,812	700000	9,645
85	11/30/2022	106.0	9,699	6,183	5,504	700000	9,234
86	12/1/2022	101.0	9,309	6,672	4,952	700000	9,559
87	12/1/2022	106.0	9,253	6,346	5,022	700000	11,010
88	12/5/2022	97	9,545	6,723	3,814	700000	10,723
89	12/5/2022	100	9,569	6,886	5,050	700000	9,527
90	12/5/2022	103	10,223	6,590	5,240	700400	10,616
91	12/6/2022	103	9,915	7,375	4,632	679960	9,483
92	12/6/2022	106	9,802	7,160	4,722	680000	9,556
93	12/6/2022	107	9,652	6,647	5,755	680000	10,175
94	12/7/2022	106	9,886	7,050	4,312	680000	9,519
95	12/7/2022	106	9,034	5,610	5,340	680000	9,636
96	12/12/2022	102	9,481	6,259	5,146	680000	9,488
97	12/12/2022	105	9,306	6,272	4,673	680000	9,471
98	12/13/2022	107	9,536	6,381	4,793	670000	9,373
99	12/14/2022	108	9,205	N/A	5,792	670000	9,532
100	12/15/2022	107	9,153	6,538	5,322	670000	9,458
101	12/16/2022	108	8,974	6,829	5,528	670000	9,556
102	12/17/2022	109	8,784	5,660	5,246	670000	9,198
103	12/16/2022	107	9,003	7,900	5,083	689270	11,970

RECEIVED
Office of Oil and Gas

MAR 04 2024

WV Department of
Environmental Protection

08/09/2024

942' to Bottom Hole

6,544' to Top Hole

TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 05 - 00

BTM LONGITUDE 80 - 30 - 00
TOP LONGITUDE 80 - 30 - 00

2,197' to Top Hole

6,697' to Bottom Hole

HG Energy II Appalachia, LLC
Well No. Burnside 1214 S-5H
As-Drilled

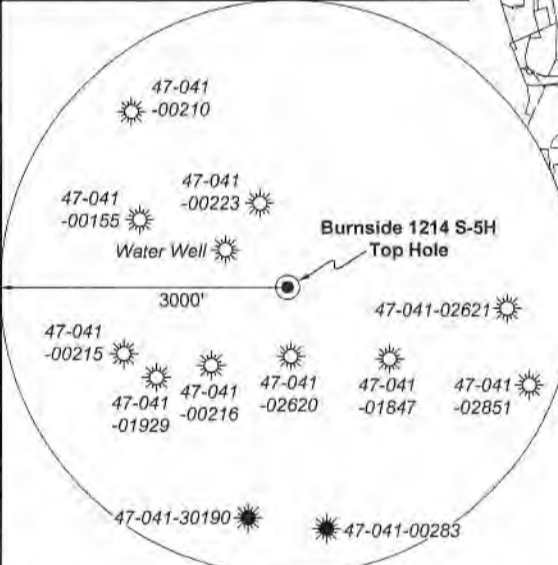
Page 1 of 2



Notes:
Well No. Burnside 1214 S-5H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,206,326.78'
E: 1,775,733.72'
Landing Point Coordinates
N: 14,205,728.00'
E: 1,774,797.60'
Bottom Hole Coordinates
N: 14,186,687.20'
E: 1,781,444.70'

Tag	Bearing	Dist.	Description
L1	S 42°45' W	1,600.7'	Threaded Pipe
L2	N 68°32' W	2,175.3'	Gate Post
L3	N 54°22' W	1,227.5'	#47-041-01847
L4	N 02°21' E	691.6'	#47-041-02620

Notes: Well No. Burnside 1214 S-5H
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E: 541,244.720m E: 542,985.431m
Plat orientation and corner and well references are
based upon the grid north meridian. Well location
references are based upon the magnetic meridian.



Note: 1 water well was found within 1500' 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.

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



FILE NO: 236-36-12-19
DRAWING NO: Burnside 1214 S-5H Well Plat
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: February 20 2023
OPERATOR'S WELL NO. Burnside 1214 S-5H
API WELL NO
47 - 041 - 05727
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1159.2' WATERSHED: Middle West Fork Creek QUADRANGLE: Camden
DISTRICT: Freemans Creek COUNTY: **08/09/2024**
SURFACE OWNER: John K. Burnside, et al ACREAGE: 115.00
ROYALTY OWNER: J.S. Hall, et ux, et al LEASE NO: ACREAGE: 214.08
PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As-Drilled
 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 27,888' MD 6,776' TVD

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

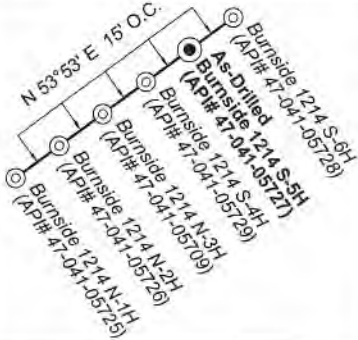


ID	Lease
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2	W.J. Grant, et ux
3	Blonda S. Hall, et al
4	J.A. Burnside, et al
6	Mary C. Burnside, et vir
7	A. Brown, et ux
8	Dale Eugene Copens, et ux
9	N.A. Lovett, et ux
11	M.J. Hall, et ux
13	Aldo McKinley
14	F. McKinley
15	Lessie Rill Lantz, et al
17	S.A. Hall, et al
20	J.W. Kemper, et ux
22	James B. Lovett, et ux
27	Lot Hall, et ux
29	HG Energy II Appalachia, LLC
39	M.I. Metheny, et vir
40	Zina L. Kershner, et vir

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.)
- Adjoiner surface tracts (approx.)

Wellhead Layout (NTS)



Well Location References
Not to Scale



Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
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2	5C / 34	Karina K. Rowe	572 / 209	42.00
3	5C / 41.1	Mike Ross, Inc. and Waco Oil & Gas	676 / 133	2.09
4	5C / 35	Robert S. Glotfelty	339 / 241	14.77
5	5C / 36	Phillip E. Burnside	766 / 831	0.71
6	5C / 32	Robert S. Glotfelty	339 / 241	94.40
7	5C / 37	Phillip E. Burnside	766 / 831	83.75
8	5C / 41	Phillip E. Burnside	766 / 831	23.90
9	5C / 44	John K. & Reta L. Burnside	631 / 778	51.00
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11	5D / 60	William R. Fultineer, et ux	627 / 496	74.71
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13	6C / 7	Matthew S. & Tricia A. Jerden	627 / 197	12.00
14	5D / 63	Donald R. & Pamela J. Spinks	574 / 573	8.00
15	6D / 1	Robert L. & Lindsey R. Rittenhouse	691 / 794	1.25
16	6D / 2	Robert L. & Lindsey R. Rittenhouse	691 / 794	74.75
17	6D / 3	James H. Hall Trust	WB H / 147	194.50
18	6D / 5	David B. & Wendall S. Hall	W29 / 176	196.50
19	6D / 10	Sue E. Hall & Alice J. Fisher	W34 / 597	252.44
20	6D / 10.2	WV American Water Company	584 / 552	0.23
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23	6D / 8	James S. & Tamara B. Wilson	370 / 303	57.25
24	6D / 11	Bradford A. & Michelle D. Taylor	762 / 891	0.30
25	6D / 17.1	Brian K. & Sherri Skidmore	713 / 848	14.00
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33	6E / 9	Heartwood Forestland Fund VII	666 / 124	28.00

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Submeter
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

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API WELL NO
47 - 041 - 05727
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1159.2' WATERSHED: Middle West Fork Creek

QUADRANGLE: Camden
COUNT: 08/08/2024
ACREAGE: 115.00

DISTRICT: Freemans Creek
SURFACE OWNER: John K. Burnside, et al

ROYALTY OWNER: J.S. Hall, et ux, et al

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Parkersburg, WV 26101

DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

942' to Bottom Hole

6,544' to Top Hole

2,197' to Top Hole

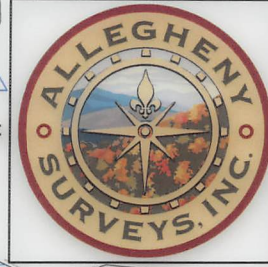
6,697' to Bottom Hole

HG Energy II Appalachia, LLC
Well No. Burnside 1214 S-5H
As-Drilled

Page 1 of 2

TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 05 - 00

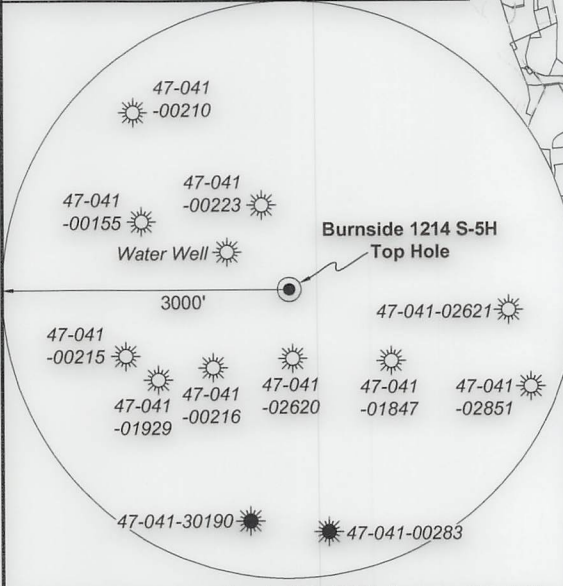
BTM LONGITUDE 80 - 30 - 00
TOP LONGITUDE 80 - 30 - 00



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references are based upon the magnetic meridian.



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

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



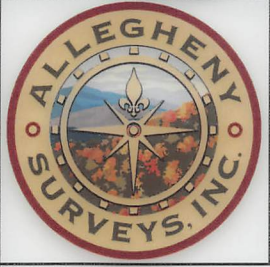
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Submeter
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STATE OF WEST VIRGINIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

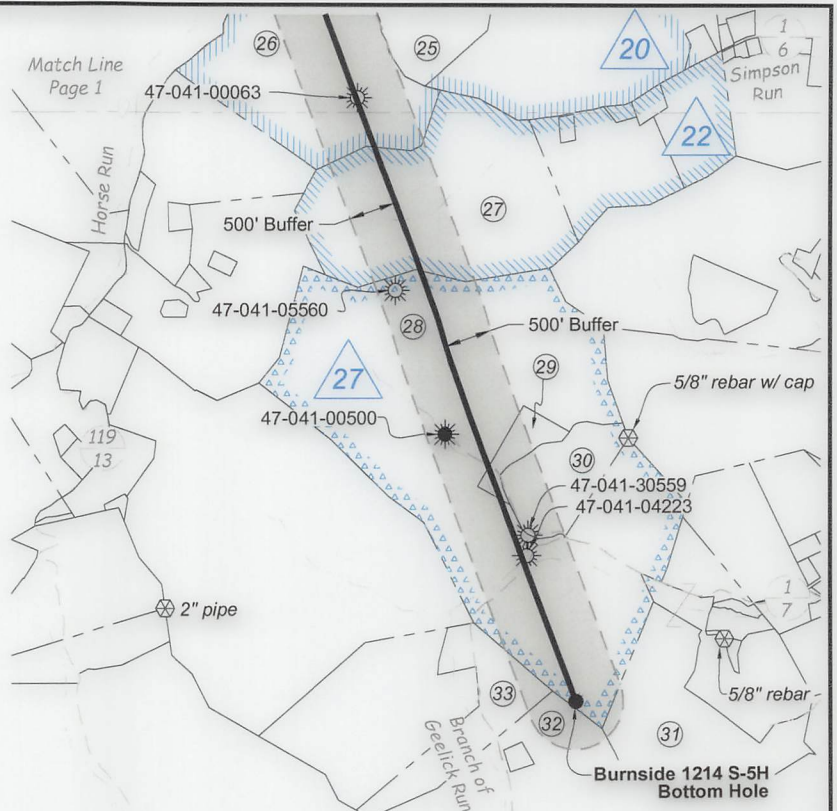
DATE: February 20 2023
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API WELL NO
47 - 041 - 05727
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1159.2' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: John K. Burnside, et al
ROYALTY OWNER: J.S. Hall, et ux, et al LEASE NO: ACREAGE: 214.08
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 PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 27,888' MD

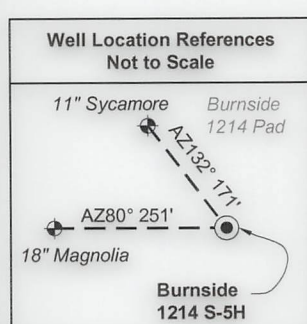
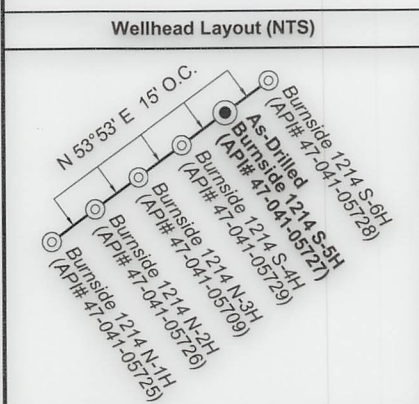
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ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101



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Legend	
	Proposed gas well
	Well Reference, as noted
	Monument, as noted
	Existing Well, as noted
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