

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



API 47-041-05709 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 N3H
Operator (as registered with the OOG) HG Energy II Appalachia, LLC
Address 5260 Dupont Rd. City Parkersburg State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4330091.674 Easting 541237.335
Landing Point of Curve Northing 4330172 Easting 541243
Bottom Hole Northing 4334425.207 Easting 539735.250

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 12/16/2020 Date drilling commenced 2/2/2022 Date drilling ceased 7/5/2022
Date completion activities began 9/3/2022 Date completion activities ceased 1/8/2023
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:
Thomas Reynolds
05/10/2024
5-7-24

API 47-041 - 05709 Farm name Burnside Well number Burnside 1214 N3H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	30"	120	New	157 lbs/ft LS		Drilled in
Surface	26"	20"	1055	New	94 lbs/ft J-55		Yes, 99 bbls to surface
Coal							
Intermediate 1	17.5"	13.375"	2059	New	68 lbs/ft J55		Yes, 85 bbls to surface
Intermediate 2	12.25"	9.625"	4682	New	40 lbs/ft		Yes, 35 bbls to surface
Intermediate 3							
Production	8.5	5.5	21942	New	23 lbs/ft P-110HP		Yes, 65 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	1978	15.6	1.18	2334	Surface	8
Coal							
Intermediate 1	Class A	1520/782	16.0/16.4	1.16/1.12	1763/875.8	Surface	24
Intermediate 2	Class A	95/520/180	10.5/10.5/15.2	2.97/2.28/1.26	282/1185/227	Surface	18
Intermediate 3							
Production	Class A	337/605/3092	13.5/15.5/14.8	1.82/1.67/1.33	613/1010/4112	Surface	8
Tubing							

Drillers TD (ft) ²¹⁹⁸³ _____ Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) ⁶⁸⁰⁵ _____

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 _____
 9.625" casing: Bow spring on first 2 joints then every 3rd joint to 100' from surface
 9.625" casing: Bow spring on first 2 joints then every 3rd joint to 100' from surface
 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 - 05709 Farm name Burnside Well number Burnside 1214 N3H

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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Please insert additional pages as applicable.

HG Energy II Appalachia, LLC
Burnside 1214 N-3H
Perforation Record

Stage #	Date	Perforation From Depth	Perforation to Depth	Number of Perforations	Formation
Sleeve/1	9/14/2022	21893	21870	2	Marcellus
2	9/15/2022	21836	21668	32	Marcellus
3	9/16/2022	21640	21472	32	Marcellus
4	9/16/2022	21444	21276	32	Marcellus
5	9/17/2022	21248	21080	32	Marcellus
6	9/17/2022	21052	20884	32	Marcellus
7	9/18/2022	20856	20688	32	Marcellus
8	9/18/2022	20660	20492	32	Marcellus
9	9/19/2022	20464	20296	32	Marcellus
10	9/19/2022	20268	20100	32	Marcellus
11	9/19/2022	20072	19904	32	Marcellus
12	9/19/2022	19876	19708	32	Marcellus
13	9/20/2022	19680	19512	32	Marcellus
14	9/20/2022	19484	19316	32	Marcellus
15	9/20/2022	19288	19120	32	Marcellus
16	9/21/2022	19092	18924	32	Marcellus
17	9/21/2022	18896	18728	32	Marcellus
18	9/21/2022	18700	18532	32	Marcellus
19	9/21/2022	18504	18336	32	Marcellus
20	9/22/2022	18308	18140	32	Marcellus
21	9/22/2022	18112	17944	32	Marcellus
22	9/22/2022	17916	17748	32	Marcellus
23	9/22/2022	17720	17552	32	Marcellus
24	9/23/2022	17524	17356	32	Marcellus
25	9/24/2022	17328	17160	32	Marcellus
26	9/24/2022	17132	16964	32	Marcellus
27	9/25/2022	16936	16768	32	Marcellus
28	9/25/2022	16740	16572	32	Marcellus
29	9/26/2022	16544	16376	32	Marcellus
30	9/26/2022	16348	16180	32	Marcellus
31	9/26/2022	16152	15984	32	Marcellus
32	9/26/2022	15956	15788	32	Marcellus
33	9/27/2022	15760	15592	32	Marcellus
34	9/27/2022	15564	15396	32	Marcellus
35	9/28/2022	15368	15200	32	Marcellus
36	9/28/2022	15172	15004	32	Marcellus
37	9/29/2022	14976	14808	32	Marcellus
38	9/30/2022	14780	14612	32	Marcellus
39	9/30/2022	14584	14416	32	Marcellus
40	9/30/2022	14388	14220	32	Marcellus
41	10/1/2022	14192	14024	32	Marcellus
42	10/1/2022	13996	13828	32	Marcellus
43	10/2/2022	13800	13632	32	Marcellus
44	10/4/2022	13604	13436	32	Marcellus
45	10/4/2022	13408	13240	32	Marcellus
46	10/4/2022	13212	13044	32	Marcellus
47	10/5/2022	13016	12848	32	Marcellus
48	10/5/2022	12820	12652	32	Marcellus
49	10/5/2022	12624	12456	32	Marcellus
50	10/6/2022	12428	12260	32	Marcellus
51	10/6/2022	12232	12064	32	Marcellus
52	10/7/2022	12037	11869	32	Marcellus
53	10/8/2022	11843	11675	32	Marcellus
54	10/8/2022	11649	11481	32	Marcellus

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55	10/8/2022	11455	11287	32	Marcellus
56	10/9/2022	11261	11093	32	Marcellus
57	10/9/2022	11067	10899	32	Marcellus
58	10/9/2022	10873	10705	32	Marcellus
59	10/10/2022	10679	10511	32	Marcellus
60	10/10/2022	10485	10317	32	Marcellus
61	10/11/2022	10291	10123	32	Marcellus
62	10/11/2022	10097	9929	32	Marcellus
63	10/12/2022	9903	9735	32	Marcellus
64	10/12/2022	9709	9541	32	Marcellus
65	10/13/2022	9515	9347	32	Marcellus
66	10/13/2022	9321	9153	32	Marcellus
67	10/14/2022	9127	8959	32	Marcellus
68	10/14/2022	8933	8765	32	Marcellus
69	10/14/2022	8739	8571	32	Marcellus
70	10/15/2022	8545	8377	32	Marcellus
71	10/15/2022	8351	8183	32	Marcellus
72	10/16/2022	8157	7989	32	Marcellus
73	10/16/2022	7963	7795	32	Marcellus
74	10/16/2022	7769	7601	32	Marcellus
75	10/17/2022	7575	7407	32	Marcellus
76	10/17/2022	7381	7237	28	Marcellus

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HG Energy II Appalachia, LLC
Burnside 1214 N-3H
Stimulation Summary

Stage #	Date	Ave Pump Rate (BPM)	Ave Treatment Press (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve/1	9/14/2022	90.0	9519	N/A	3748	270000	7,543
2	9/15/2022	85.0	10,304	6,443	5,822	564220	13,635
3	9/16/2022	86.0	10,116	6,386	5,965	700000	14,577
4	9/16/2022	86.0	10,248	6,343	4,059	643400	12,338
5	9/17/2022	93.0	10,437	5,712	5,804	569160	10,518
6	9/17/2022	86.0	9,957	6,060	4,836	397280	7,724
7	9/18/2022	92.0	10,786	6,049	4,579	705000	11,641
8	9/18/2022	88.0	9,905	6,315	4,571	705000	11,497
9	9/19/2022	94.0	10,414	6,044	5,408	705000	11,408
10	9/19/2022	91.0	10,360	6,443	4,966	705000	9,790
11	9/19/2022	89.0	10,100	6,462	4,620	705000	9,766
12	9/19/2022	92.0	9,637	5,973	5,416	705000	9,658
13	9/20/2022	86.6	10,134	7,049	5,410	626380	10,877
14	9/20/2022	85.0	10,039	6,398	5,043	705000	9,784
15	9/20/2022	87.0	9,967	6,572	4,976	705000	9,632
16	9/21/2022	89.0	10,279	6,387	5,594	705500	9,843
17	9/21/2022	89.0	10,332	6,822	6,042	690000	9,728
18	9/21/2022	90.0	10,354	6,316	6,355	690500	9,744
19	9/21/2022	88.0	10,167	6,294	4,849	690000	9,796
20	9/22/2022	92.0	10,322	6,316	5,462	690000	9,511
21	9/22/2022	93.0	10,226	6,172	5,213	690000	9,766
22	9/22/2022	89.0	10,239	6,543	5,132	690000	9,610
23	9/22/2022	92.0	10,294	6,521	5,806	690000	9,601
24	9/23/2022	89.0	10,208	6,247	5,381	690000	10,728
25	9/24/2022	98.0	10,264	5,934	5,089	690000	9,897
26	9/24/2022	92.0	10,189	5,922	5,370	690000	9,742
27	9/25/2022	90.0	10,332	6,375	5,453	690000	9,421
28	9/25/2022	89.0	10,190	6,114	5,268	690000	9,736
29	9/26/2022	91.0	10,136	6,375	5,240	690000	9,843
30	9/26/2022	95.0	10,270	6,489	6,275	690000	9,779
31	9/26/2022	92.0	10,095	6,492	5,399	690000	9,394
32	9/26/2022	100.0	10,241	6,327	6,132	690000	9,679
33	9/27/2022	92.0	8,969	6,306	5,727	690000	9,531
34	9/27/2022	99.0	10,157	6,263	4,613	690000	9,530
35	9/28/2022	93.0	10,044	6,032	5,949	690000	9,887
36	9/28/2022	92.0	10,280	6,416	4,843	690000	9,576
37	9/29/2022	96.0	10,247	6,585	4,971	690000	10,583
38	9/30/2022	93.0	10,058	6,212	4,688	690000	9,555
39	9/30/2022	93.0	10,140	6,312	5,528	690000	9,800
40	9/30/2022	94.0	10,156	6,079	4,620	690000	9,774
41	10/1/2022	96.0	9,687	5,637	5,215	690000	11,628
42	10/1/2022	98.0	10,080	6,305	5,017	690000	9,778
43	10/2/2022	98.0	9,751	6,399	5,375	690000	9,855
44	10/4/2022	100.0	10,165	N/A	5,080	690000	9,916
45	10/4/2022	97.0	10,217	6,521	5,190	690000	9,706
46	10/4/2022	94.0	10,208	6,550	4,773	690000	9,890
47	10/5/2022	94.0	9,867	6,259	5,265	690000	9,849
48	10/5/2022	96.0	10,119	6,470	6,210	690000	9,756
49	10/5/2022	97.0	10,058	6,439	4,506	690000	9,796
50	10/6/2022	94.0	9,645	6,153	5,464	690000	9,676
51	10/6/2022	96.0	10,274	6,468	4,742	690000	9,595
52	10/7/2022	102.0	9,946	6,030	6,205	690000	9,626
53	10/8/2022	94.0	10,262	6,439	4,568	690000	9,577
54	10/8/2022	102.0	9,696	6,550	6,872	690000	9,830

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55	10/8/2022	100.0	10,243	6,481	4,037	690000	9,563
56	10/9/2022	103.0	10,036	6,648	4,704	690000	9,718
57	10/9/2022	97.0	10,503	5,608	5,392	690000	9,587
58	10/9/2022	98.0	10,222	6,140	5,041	690000	9,590
59	10/10/2022	100.0	10,252	6,081	5,533	690000	9,396
60	10/10/2022	100.0	10,299	6,183	4,585	690000	9,622
61	10/11/2022	103.0	9,381	6,099	6,341	690000	12,434
62	10/11/2022	97.0	9,822	6,317	5,221	690000	9,391
63	10/12/2022	94.0	10,184	6,718	5,197	690000	9,599
64	10/12/2022	99.0	10,366	6,259	5,571	690000	9,526
65	10/13/2022	100.0	9,904	5,905	5,127	690000	9,600
66	10/13/2022	101.0	9,975	6,428	5,323	690000	9,428
67	10/14/2022	96.0	9,308	6,346	5,330	670000	9,349
68	10/14/2022	103.0	10,095	5,620	5,292	670000	9,344
69	10/14/2022	104.0	10,028	6,241	6,127	670000	9,223
70	10/15/2022	105.0	9,352	6,428	5,186	670000	9,251
71	10/15/2022	109.0	9,396	6,464	5,358	670000	9,045
72	10/16/2022	106.0	9,133	5,992	5,060	670000	9,262
73	10/16/2022	109.0	9,896	6,040	5,614	670000	10,984
74	10/16/2022	109.0	9,364	6,314	5,213	670000	9,704
75	10/17/2022	108.0	9,243	6,264	5,469	670000	9,367
76	10/17/2022	107.0	9,431	6,095	5,425	670000	9,434

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API 47- 041 - 05709 Farm name Burnside Well number Burnside 1214 N3H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6888-7125</u> TVD	<u>7161-21983</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

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

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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 2/29/2024

HG Energy II Appalachia, LLC
Lithology Record
Burnside 1214 N-3H

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	1090	drill	1055	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	2089	drill	2059	set
30' sand	2096	2096	2111	2111
Gordon Stray	2124	2124	2161	2160
Gordon Sand	2161	2160	2242	2241
Fourth Sand	2271	2270	2290	2289
Fifth Sand	2388	2387	2429	2427
Bayard	2466	2464	2498	2496
Warren	2761	2758	2797	2793
Speechley	3097	3092	3113	3108
Balltown	3214	3208	3283	3277
Benson	4400	4391	4425	4415
Inter Casing	4712	drill	4682	set
Rhinestreet	6032	6017	6235	6218
Cashaqua	6235	6218	6547	6509
Middlesex	6547	6509	6661	6596
West River	6661	6596	6809	6696
Burket	6809	6696	6850	6721
Tully	6850	6721	7009	6814
Hamilton	7009	6814	7161	6888
Marcellus	7161	6888	21983	7125

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11,418' to Bottom Hole
6,568' to Top Hole

HG Energy II Appalachia, LLC
Well No. Burnside 1214 N-3H
As-Drilled

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TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 10 - 00

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

2,215' to Top Hole

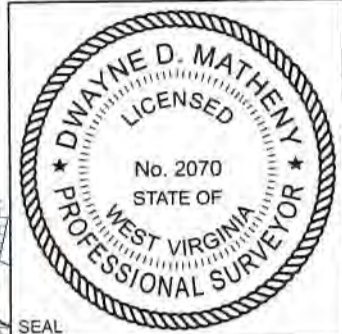
3,142' to Bottom Hole



Notes:
Well No. Burnside 1214 N-3H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,206,309.10'
E: 1,775,709.49'
Landing Point Coordinates
N: 14,206,573.50'
E: 1,775,727.30'
Bottom Hole Coordinates
N: 14,220,526.70'
E: 1,770,781.40'

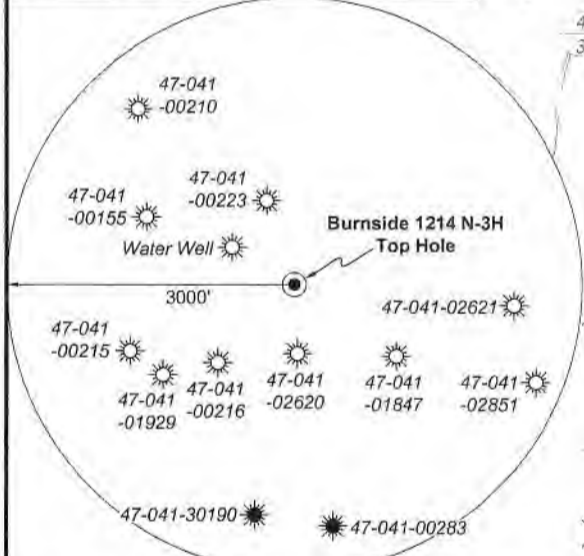
Tag	Bearing	Dist.	Description
L1	S 42°57' W	1,630.2'	Threaded Pipe
L2	N 69°11' W	2,191.5'	Gate Post
L3	N 55°41' W	1,237.2'	47-041-01847
L4	N 00°21' E	673.3'	47-041-02620

Notes: Well No. Burnside 1214 N-3H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'08.11" Latitude: 39°09'28.94"
Longitude: 80°31'23.37" Longitude: 80°32'25.00"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,330,091.674m N: 4,334,425.207m
E: 541,237.335m E: 539,735.250m
Plat orientation and corner and well references are
based upon the grid north meridian. Well location
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



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.

GRID NORTH

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

FILE NO: 236-36-12-19
DRAWING NO: Burnside 1214 N-3H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

DATE: February 20 2023
OPERATOR'S WELL NO. Burnside 1214 N-3H
API WELL NO
47 - 041 - 05709
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
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: 21,983' MD 7,124' 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

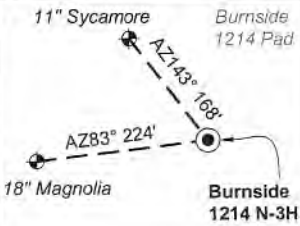
COUNTY: **05/10/2024**

ACREAGE: 115.00

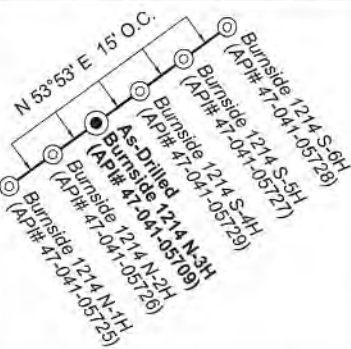
ACREAGE: 214.08



**Well Location References
Not to Scale**



Wellhead Layout (NTS)



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.)

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1	J.S. Hall, et ux
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7	Hudson Bailey, et ux
11	Ruby L. Klinger, et al
12	Ira L. Queen, et al
14	John L. Burnside, et ux
16	W.G. Bailey
18	Ruth N. Bailey
24	Oma G. Hall, et al
25	Fern M. White, et al
26	J.A. White, et ux
30	Clarence P. McKinley, et ux

Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 3.2	John K. Burnside, et al	666 / 44	115.00
2	5C / 41	Phillip E. Burnside	766 / 831	23.90
3	5C / 34	Karina K. Rowe	572 / 209	42.00
4	5C / 49	James C. Garrett, et al	621 / 578	28.50
5	5B / 18	Mike Ross Inc.	659 / 215	279.97
6	5C / 33	John W. & Joyce M. Hall	567 / 82	12.30
7	6B / 8	James C. Garrett, et al	621 / 578	47.00
8	6B / 6	James C. Garrett, et al	621 / 578	30.00
9	5B / 39	Edward E. Garrett, et al	429 / 245	55.00
10	6B / 5	Edward E. Garrett, et al	429 / 245	136.00
11	5B / 38	Phillip E. Burnside, et al	666 / 503	75.00
12	5B / 37	Phillip E. Burnside, et al	666 / 503	36.00
13	5B / 32	John & Rhonda Myers	652 / 73	76.64
14	5B / 35	Ruth U. Theofield Living Trust Agreement October 24, 2018	740 / 840	96.69
15	5B / 34	Mannie R. & Doris A. Griffith (LE), et al	652 / 69	20.49
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17	5A / 44	Charles D. & Samantha L. Brosius	710 / 356	49.90
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20	442 / 6	Karen L. & J.C. Hayhurst	1592 / 1194	97.01
21	422 / 29	Karen L. Hayhurst, et al	W198 / 657	48.47
22	422 / 30	Dewain Titus, Jr.	1173 / 1045	89.47

FILE NO: 236-36-12-19
DRAWING NO: Burnside 1214 N-3H 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 N-3H
API WELL NO
47 - 041 - 05709
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

Btm: Big Isaac
QUADRANGLE: Top: Camden
COUNTY: Lewis
ACREAGE: 115.00

SURFACE OWNER: John K. Burnside, et al

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

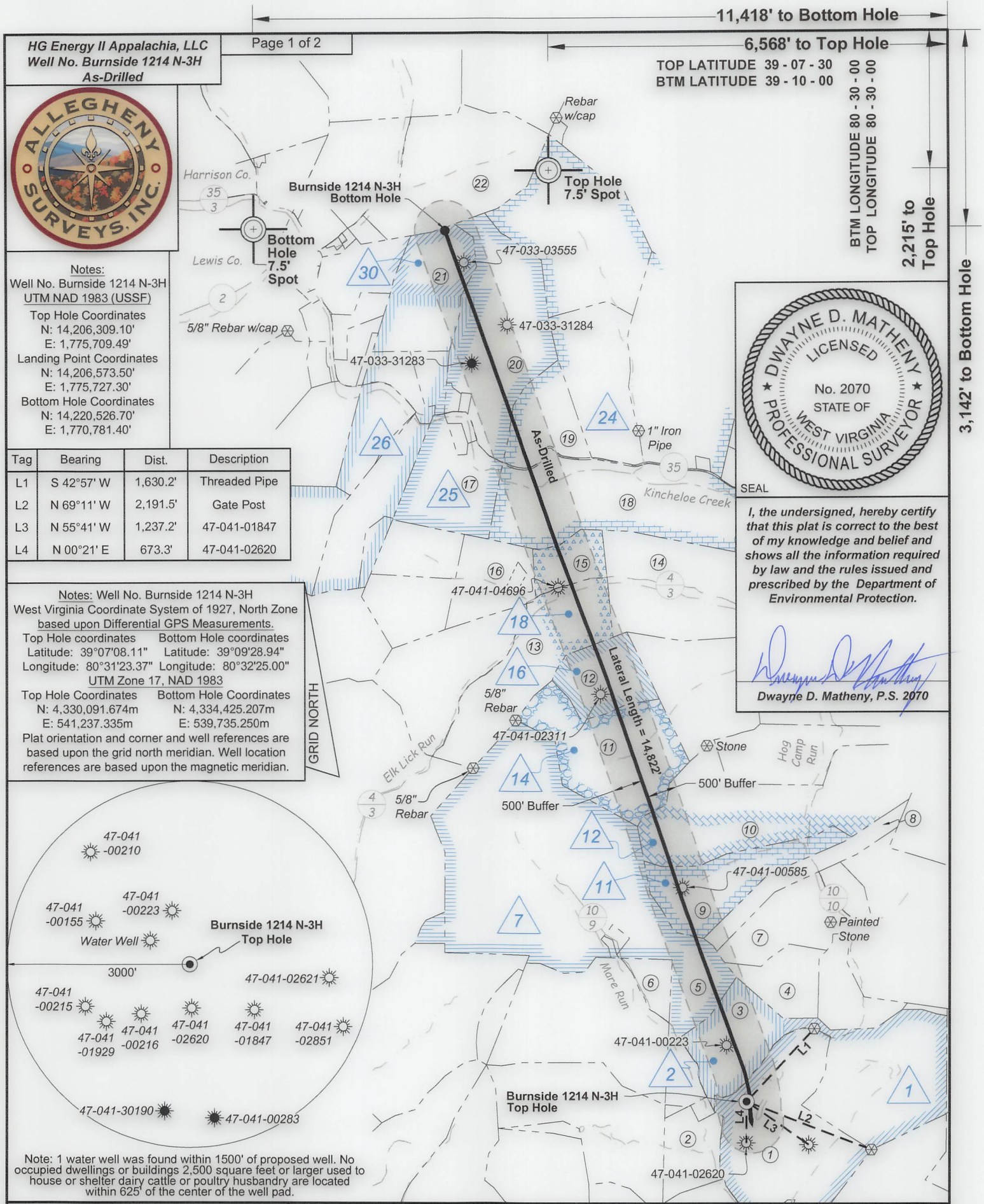
LEASE NO: ACREAGE: 214.08

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: 7,124' TVD 21,983' MD

WELL OPERATOR: HG Energy II Appalachia, LLC
ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101

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



HG Energy II Appalachia, LLC
Well No. Burnside 1214 N-3H
As-Drilled

Page 1 of 2

11,418' to Bottom Hole

6,568' to Top Hole

TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 10 - 00

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



Notes:
Well No. Burnside 1214 N-3H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,206,309.10'
E: 1,775,709.49'
Landing Point Coordinates
N: 14,206,573.50'
E: 1,775,727.30'
Bottom Hole Coordinates
N: 14,220,526.70'
E: 1,770,781.40'

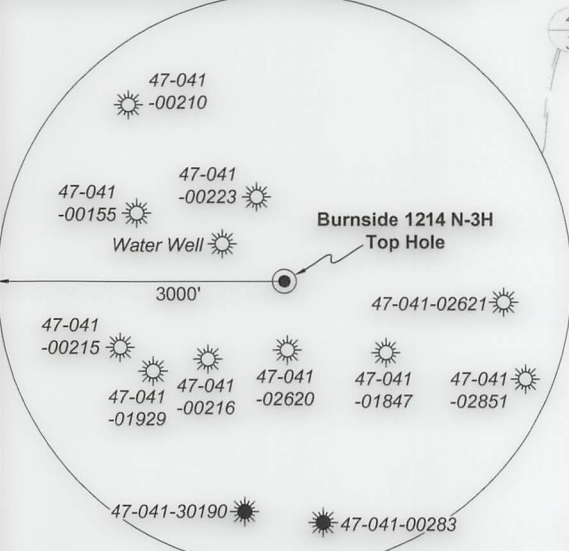
Tag	Bearing	Dist.	Description
L1	S 42°57' W	1,630.2'	Threaded Pipe
L2	N 69°11' W	2,191.5'	Gate Post
L3	N 55°41' W	1,237.2'	47-041-01847
L4	N 00°21' E	673.3'	47-041-02620



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

Notes: Well No. Burnside 1214 N-3H
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'08.11" Latitude: 39°09'28.94"
Longitude: 80°31'23.37" Longitude: 80°32'25.00"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,330,091.674m N: 4,334,425.207m
E: 541,237.335m E: 539,735.250m
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.

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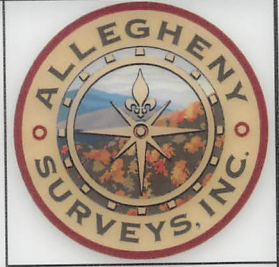
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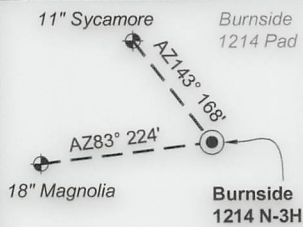
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3,142' to Bottom Hole

2,215' to Top Hole

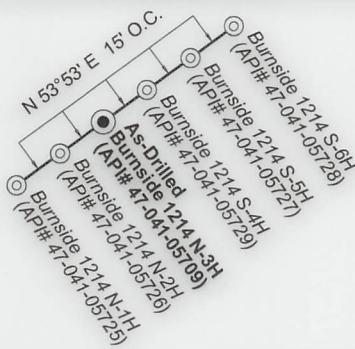


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