

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

API 47-041-05725 County Lewis District Freemans Creek
Quad Camden & Big Isaac 7.5' Pad Name Burnside 1214 Field/Pool Name Fink/Kennedy
Farm name Burnside Well Number Burnside 1214 N1H
Operator (as registered with the OOG) HG Energy II Appalachia, LLC
Address 5260 Dupont Rd. City Parkersburg State WV Zip 26101

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4330086.282 Easting 541229.947
Landing Point of Curve Northing 4329921 Easting 540532
Bottom Hole Northing 4334790.236 Easting 538831.516

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 01/11/2022 Date drilling commenced 1/25/2022 Date drilling ceased 9/2/2022
Date completion activities began 9/3/2022 Date completion activities ceased 12/31/2022
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:
Wendell Reynolds
05/31/2024
3-7-24

API 47-041 - 05725

Farm name Burnside

Well number Burnside 1214 N1H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	30"	120	New	157 lbs/ft		Drilled in
Surface	26"	20"	1090	New	94 lbs/ft J-55		Yes, 130bbls to surface
Coal							
Intermediate 1	17.5"	13.375"	2065	New	68 lbs/ft J55		Yes, 107 bbls to surface
Intermediate 2	12.25"	9.625"	4855	New	40 lbs/ft		Yes, 83 bbls to surface
Intermediate 3							
Production	8.5	5.5	24750	New	23 lbs/ft P-110HP		Yes, 253 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	2099	15.6	1.19	2498	Surface	8
Coal							
Intermediate 1	Class A	1442/788	16.0/16.4	1.16/1.12	1672.7/882	Surface	24
Intermediate 2	Class A	114/615/256	10.5/10.5/15.2	2.85/2.28/1.27	325/1402/325	Surface	18
Intermediate 3							
Production	Class A	685/690/3704	13.7/13.7/14.8	1.76/1.61/1.34	1205/1111/4963	Surface	8
Tubing							

Drillers TD (ft) ²⁴⁷⁸⁰ _____ Loggers TD (ft) _____

Deepest formation penetrated Marcellus Plug back to (ft) _____

Plug back procedure _____

Kick off depth (ft) ⁶⁴⁶⁸ _____

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

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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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Lithology Record

Burnside 1214 N-1H

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	1130		1090	set
Maxton	1331	1331	1370	1370
Little Lime	1501	1501	1517	1517
Big Lime	1543	1543	1604	1604
Big Injun	1608	1608	1712	1712
Gantz (storage)	1881	1881	1941	1941
50' sand	1997	1997	2017	2017
Storage casing	2090		2065	set
30' sand	2094	2094	2111	2111
Gordon Stray	2123	2123	2161	2161
Gordon Sand	2161	2161	2244	2244
Fourth Sand	2267	2267	2285	2285
Fifth Sand	2389	2387	2426	2423
Bayard	2465	2461	2499	2496
Warren	2764	2757	2799	2792
Speechley	3098	3081	3123	3105
Balltown	3220	3200	3389	3265
Benson	4547	4395	4574	4417
Inter Casing	4885		4855	set
Rhinestreet	6673	6081	6976	6322
Cashaqua	6976	6322	7224	6528
Middlesex	7224	6528	7326	6612
West River	7326	6612	7455	6709
Burket	7455	6709	7505	6742
Tully	7505	6742	7658	6828
Hamilton	7658	6828	7841	6907
Marcellus	7841	6907	24780	7139

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Burnside 1214 N-1H
Perforation Record

Stage #	Date	Perforation From Depth	Perforation to Depth	Number of Perforations	Formation
Sleeve/1	10/30/2022	24701	24677	2	Marcellus
2	10/30/2022	24643	24475	32	Marcellus
3	10/31/2022	24447	24279	32	Marcellus
4	10/31/2022	24251	24083	32	Marcellus
5	11/1/2022	24055	23887	32	Marcellus
6	11/1/2022	23859	23691	32	Marcellus
7	11/2/2022	23663	23495	32	Marcellus
8	11/3/2022	23467	23299	32	Marcellus
9	11/3/2022	23271	23103	32	Marcellus
10	11/4/2022	23075	22907	32	Marcellus
11	11/4/2022	22879	22711	32	Marcellus
12	11/4/2022	22683	22515	32	Marcellus
13	11/5/2022	22487	22319	32	Marcellus
14	11/5/2022	22291	22123	32	Marcellus
15	11/5/2022	22095	21927	32	Marcellus
16	11/6/2022	21899	21731	32	Marcellus
17	11/6/2022	21703	21535	32	Marcellus
18	11/7/2022	21507	21339	32	Marcellus
19	11/7/2022	21311	21143	32	Marcellus
20	11/8/2022	21115	20947	32	Marcellus
21	11/8/2022	20919	20751	32	Marcellus
22	11/8/2022	20723	20555	32	Marcellus
23	11/9/2022	20527	20359	32	Marcellus
24	11/9/2022	20331	20163	32	Marcellus
25	11/10/2022	20135	19967	32	Marcellus
26	11/10/2022	19939	19771	32	Marcellus
27	11/10/2022	19743	19575	32	Marcellus
28	11/11/2022	19547	19379	32	Marcellus
29	11/11/2022	19351	19183	32	Marcellus
30	11/12/2022	19149	18987	32	Marcellus
31	11/12/2022	18959	18791	32	Marcellus
32	11/12/2022	18763	18595	32	Marcellus
33	11/13/2022	18567	18399	32	Marcellus
34	11/13/2022	18371	18203	32	Marcellus
35	11/13/2022	18175	18007	32	Marcellus
36	11/14/2022	17979	17811	32	Marcellus
37	11/14/2022	17783	17615	32	Marcellus
38	11/15/2022	17587	17419	32	Marcellus
39	11/15/2022	17391	17223	32	Marcellus
40	11/15/2022	17195	17027	32	Marcellus
41	11/16/2022	16999	16831	32	Marcellus
42	11/16/2022	16803	16635	32	Marcellus
43	11/16/2022	16607	16439	32	Marcellus
44	11/17/2022	16411	16243	32	Marcellus
45	11/17/2022	16215	16047	32	Marcellus
46	11/18/2022	16019	15851	32	Marcellus
47	11/18/2022	15823	15655	32	Marcellus
48	11/18/2022	15627	15459	32	Marcellus
49	11/19/2022	15432	15264	32	Marcellus
50	11/19/2022	15238	15070	32	Marcellus
51	11/20/2022	15044	14876	32	Marcellus
52	11/20/2022	14850	14682	32	Marcellus
53	11/20/2022	14656	14488	32	Marcellus
54	11/21/2022	14462	14294	32	Marcellus

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55	11/21/2022	14268	14100	32	Marcellus
56	11/22/2022	14074	13906	32	Marcellus
57	11/22/2022	13880	13712	32	Marcellus
58	11/22/2022	13686	13518	32	Marcellus
59	11/23/2022	13492	13324	32	Marcellus
60	11/26/2022	13298	13130	32	Marcellus
61	11/27/2022	13104	12936	32	Marcellus
62	11/27/2022	12910	12742	32	Marcellus
63	11/28/2022	12716	12548	32	Marcellus
64	11/28/2022	12522	12354	32	Marcellus
65	11/29/2022	12328	12160	32	Marcellus
66	11/29/2022	12134	11966	32	Marcellus
67	11/29/2022	11940	11772	32	Marcellus
68	11/30/2022	11746	11578	32	Marcellus
69	11/30/2022	11552	11384	32	Marcellus
70	12/1/2022	11358	11190	32	Marcellus
71	12/1/2022	11164	10996	32	Marcellus
72	12/1/2022	10970	10802	32	Marcellus
73	12/5/2022	10776	10608	32	Marcellus
74	12/5/2022	10582	10414	32	Marcellus
75	12/6/2022	10388	10220	32	Marcellus
76	12/6/2022	10194	10026	32	Marcellus
77	12/6/2022	10000	9832	32	Marcellus
78	12/6/2022	9806	9638	32	Marcellus
79	12/7/2022	9612	9444	32	Marcellus
80	12/7/2022	9418	9250	32	Marcellus
81	12/12/2022	9224	9056	32	Marcellus
82	12/12/2022	9030	8862	32	Marcellus
83	12/13/2022	8836	8668	32	Marcellus
84	12/14/2022	8642	8474	32	Marcellus
85	12/14/2022	8448	8280	32	Marcellus
86	12/15/2022	8254	8086	32	Marcellus
87	12/16/2022	8060	7916	28	Marcellus

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Burnside 1214 N-1H

Stimulation Summary

Stage #	Date	Ave Pump Rate (BPM)	Ave Treatment Press (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve/1	10/30/2022	76.0	9702	12380	4410	270000	7,632
2	10/30/2022	80.0	10,227	7,782	4,563	390600	11,485
3	10/31/2022	82.0	10,274	8,746	4,400	700000	15,495
4	10/31/2022	82.0	10,529	7,351	5,243	707500	12,837
5	11/1/2022	79.0	10,312	7,375	5,400	702500	13,311
6	11/1/2022	86.0	10,767	6,688	6,705	705000	11,424
7	11/2/2022	86.0	10,607	6,628	7,063	705000	11,918
8	11/3/2022	86.0	10,555	6,303	5,532	642500	9,678
9	11/3/2022	82.0	10,388	6,852	5,138	690300	10,188
10	11/4/2022	86.0	10,382	6,660	6,754	690000	9,760
11	11/4/2022	86.0	10,311	3,472	6,646	707200	9,743
12	11/4/2022	87.0	10,362	6,076	6,324	690000	9,584
13	11/5/2022	70.0	9,760	6,275	6,120	478800	9,305
14	11/5/2022	85.0	10,399	6,060	5,870	691800	10,027
15	11/5/2022	85.0	10,427	6,910	5,344	690000	9,998
16	11/6/2022	89.0	10,381	6,549	5,451	692200	9,897
17	11/6/2022	87.0	10,416	6,250	6,133	689000	9,862
18	11/7/2022	88.0	10,321	6,524	6,444	690000	9,758
19	11/7/2022	90.0	10,500	5,230	6,198	690600	9,704
20	11/8/2022	85.0	10,190	6,329	6,352	690000	9,894
21	11/8/2022	86.0	10,360	6,534	5,201	692100	9,822
22	11/8/2022	87.0	10,416	6,140	6,536	689480	9,839
23	11/9/2022	83.0	9,815	6,247	4,700	585500	10,669
24	11/9/2022	87.0	10,428	6,240	5,827	691400	10,699
25	11/10/2022	85.7	9,776	4,860	4,574	690000	9,772
26	11/10/2022	91.0	10,376	6,550	6,773	691520	9,672
27	11/10/2022	88.0	9,976	4,568	4,476	690000	10,439
28	11/11/2022	93.0	10,006	6,038	4,864	690000	10,752
29	11/11/2022	87.0	10,029	6,648	5,246	602290	10,207
30	11/12/2022	87.0	9,710	6,061	6,077	690000	9,842
31	11/12/2022	82.0	9,714	7,055	4,525	690000	11,751
32	11/12/2022	86.2	10,200	5,619	4,690	601470	10,316
33	11/13/2022	90.0	10,071	6,590	5,438	693720	9,657
34	11/13/2022	89.0	10,161	6,625	6,227	690300	9,659
35	11/13/2022	89.0	10,099	5,724	4,496	438750	8,942
36	11/14/2022	88.0	10,212	5,980	4,527	690000	11,697
37	11/14/2022	94.8	10,018	5,893	5,172	690000	10,900
38	11/15/2022	86.7	10,040	7,096	4,800	410900	7,709
39	11/15/2022	89.0	10,080	6,254	5,088	690000	9,517
40	11/15/2022	93.0	10,262	7,218	5,694	697550	10,458
41	11/16/2022	93.0	10,019	6,739	6,381	705000	9,776
42	11/16/2022	94.0	10,155	5,789	5,876	705000	10,800
43	11/16/2022	93.0	10,228	7,125	4,514	705000	9,956
44	11/17/2022	94.0	10,056	6,073	6,687	705000	9,889
45	11/17/2022	93.0	10,256	6,618	5,387	705000	9,980
46	11/18/2022	92.0	10,221	7,763	5,112	705000	10,223
47	11/18/2022	93.0	10,143	5,684	5,744	705000	9,920
48	11/18/2022	95.0	10,195	6,457	5,407	705000	10,007
49	11/19/2022	102.0	10,236	6,659	6,936	705000	10,293
50	11/19/2022	98.0	9,986	6,032	5,051	705000	10,109
51	11/20/2022	97.0	9,914	7,224	5,018	705000	9,727
52	11/20/2022	97.0	9,962	5,916	5,903	705000	9,770
53	11/20/2022	99.0	8,884	6,370	5,208	705000	9,945
54	11/21/2022	100.0	10,130	5,673	5,445	705000	10,079

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55	11/21/2022	98.0	10,232	6,307	5,012	705000	9,868
56	11/22/2022	98.0	10,000	6,804	4,885	700000	9,711
57	11/22/2022	97.0	10,126	6,010	5,393	700000	9,714
58	11/22/2022	101.0	10,298	6,067	5,201	700000	9,727
59	11/23/2022	101.0	10,266	6,254	5,657	700000	10,718
60	11/26/2022	97.0	9,850	5,693	5,256	700000	11,370
61	11/27/2022	103.0	10,046	6,137	5,036	700000	9,849
62	11/27/2022	100.0	10,261	4,679	5,193	702500	9,781
63	11/28/2022	98.0	9,439	6,601	4,404	700000	10,528
64	11/28/2022	105.0	9,839	6,137	5,103	700000	9,681
65	11/29/2022	95.0	9,522	6,352	4,965	700000	9,530
66	11/29/2022	103.0	9,797	5,898	5,410	700000	9,626
67	11/29/2022	100.0	10,149	6,270	5,166	701400	11,689
68	11/30/2022	99.0	9,511	6,434	4,418	700000	9,543
69	11/30/2022	107.0	9,804	6,484	5,084	700000	9,836
70	12/1/2022	105.0	10,070	5,730	5,123	700000	9,343
71	12/1/2022	100.0	9,697	6,218	4,676	674080	10,633
72	12/1/2022	104.0	9,557	N/A	5,259	700000	10,462
73	12/5/2022	105.0	9,685	6,497	4,912	700000	9,802
74	12/5/2022	106.0	9,395	5,712	5,225	700000	9,674
75	12/6/2022	105.0	9,776	6,421	4,965	700000	9,568
76	12/6/2022	106.0	9,434	6,414	4,772	700000	9,518
77	12/6/2022	108.0	9,712	6,538	4,852	700000	9,576
78	12/6/2022	108.0	9,574	5,430	6,181	700000	9,574
79	12/7/2022	109.0	8,995	4,853	4,280	700000	9,675
80	12/7/2022	104.0	9,470	6,358	5,091	700000	10,316
81	12/12/2022	103.0	9,250	5,625	4,208	700000	9,732
82	12/12/2022	106.0	9,224	5,248	5,472	680000	9,990
83	12/13/2022	108.0	9,133	5,428	5,498	680000	9,474
84	12/14/2022	106.0	9,063	5,415	5,073	680000	9,529
85	12/14/2022	109.0	8,415	4,528	6,678	680000	9,515
86	12/15/2022	108.0	8,968	4,843	5,956	680000	9,119
87	12/16/2022	108.0	8,679	5,253	4,958	680000	9,313

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2,565' to Bottom Hole

6,593' to Top Hole

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

BTM LONGITUDE 80 - 32 - 30
TOP LONGITUDE 80 - 30 - 00

2,233' to Top Hole

1,930' to Bottom Hole

HG Energy II Appalachia, LLC
Well No. Burnside 1214 N-1H
As-Drilled

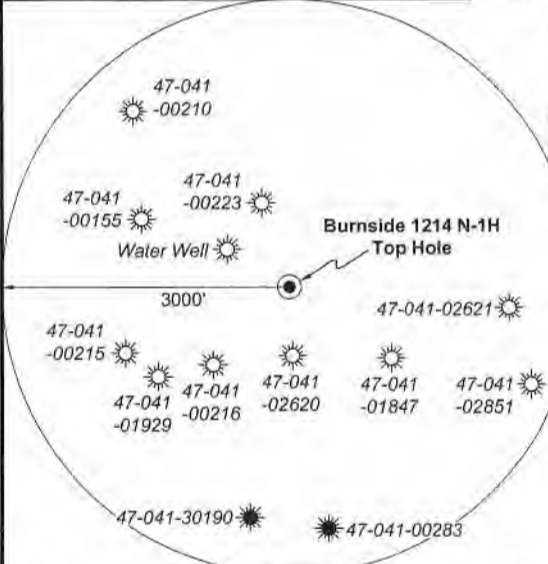
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Notes:
Well No. Burnside 1214 N-1H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,206,291.41'
E: 1,775,685.25'
Landing Point Coordinates
N: 14,205,747.40'
E: 1,773,394.40'
Bottom Hole Coordinates
N: 14,221,724.30'
E: 1,767,816.40'

Tag	Bearing	Dist.	Description
L1	S 43°09' W	1,659.6'	Threaded Pipe
L2	N 69°51' W	2,208.0'	Gate Post
L3	N 56°59' W	1,247.6'	#47-041-01847
L4	N 01°46' W	655.9'	#47-041-02620

Notes: Well No. Burnside 1214 N-1H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°07'07.93" Latitude: 39°09'40.93"
Longitude: 80°31'23.68" Longitude: 80°33'02.58"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,330,086.282m N: 4,334,790.236m
E: 541,229.947m E: 538,831.516m
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.

FILE NO: 236-36-12-19
DRAWING NO: Burnside 1214 N-1H 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-1H
API WELL NO
47 - 041 - 05725
STATE COUNTY PERMIT

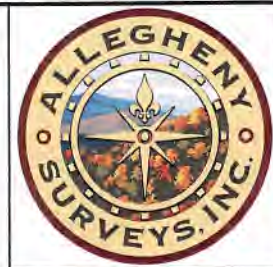
WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW
LOCATION: ELEVATION: 1159.2' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek
SURFACE OWNER: John K. Burnside, et al
ROYALTY OWNER: J.S. Hall, et ux, et al LEASE NO: ACREAGE: 214.08
PROPOSED WORK: DRILL 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: 24,780' MD

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

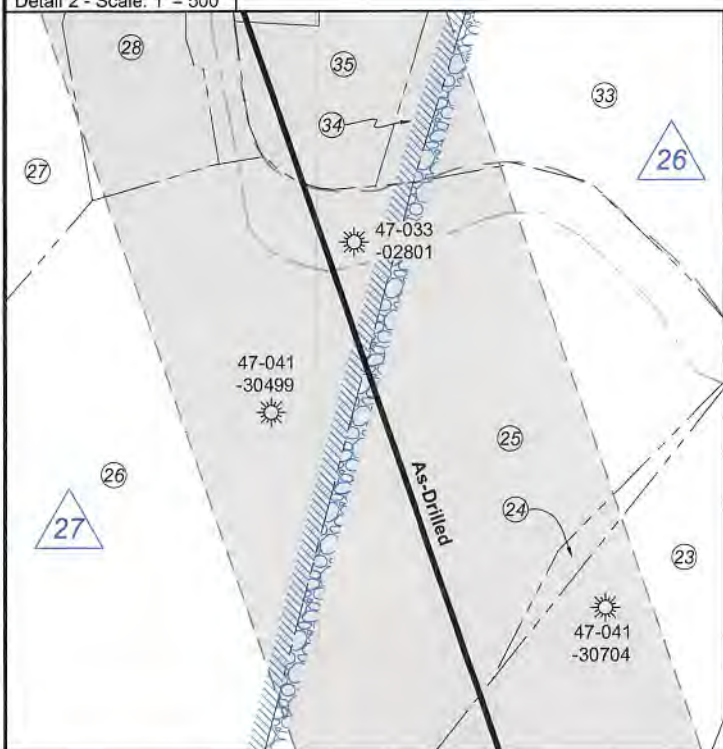


I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.

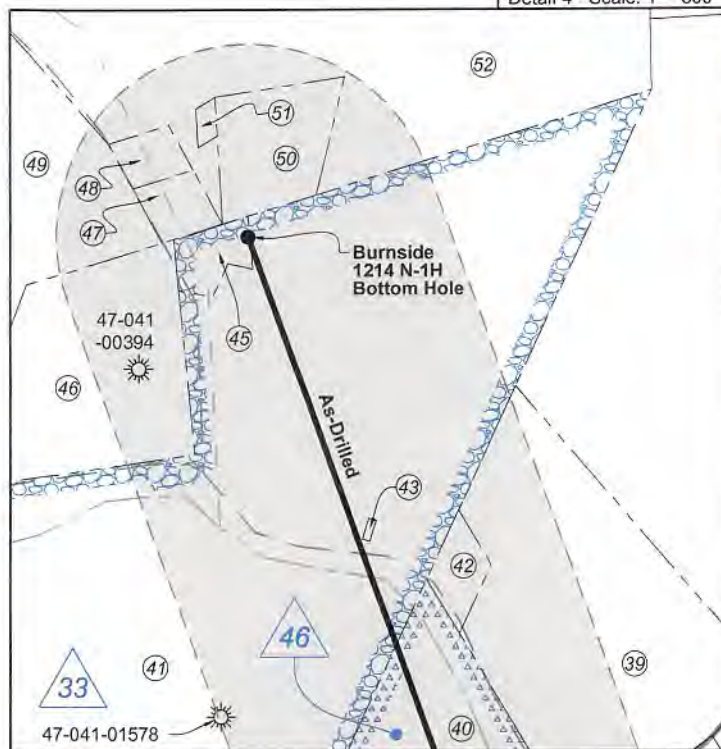
Dwayne D. Matheny
Dwayne D. Matheny, P.S. 2070



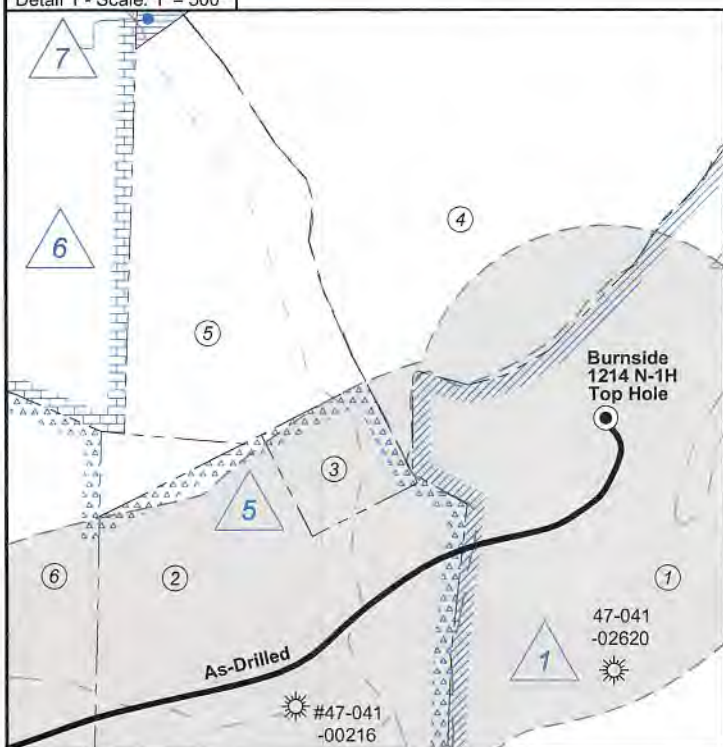
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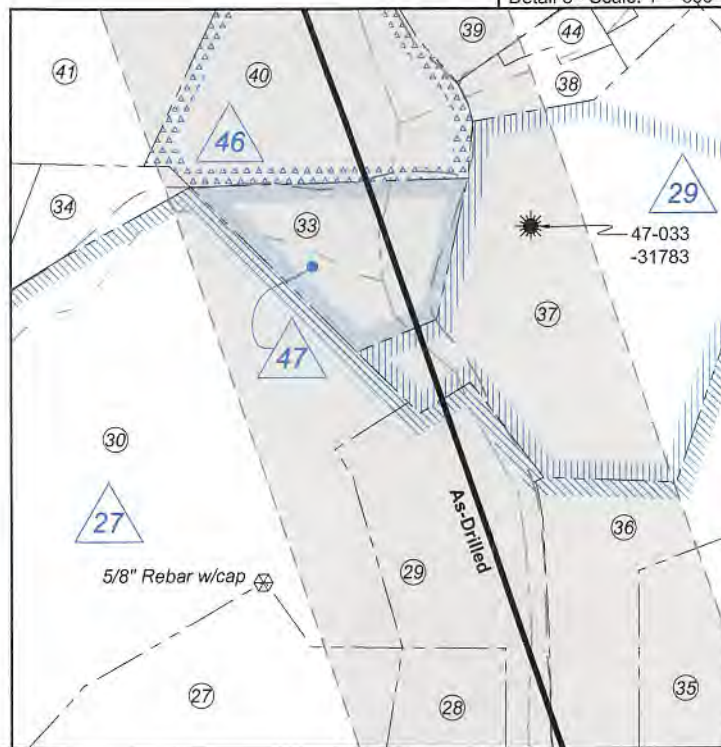
Detail 4 - Scale: 1" = 500"



Detail 1 - Scale: 1" = 500"



Detail 3 - Scale: 1" = 500"



FILE NO: 236-36-12-19
DRAWING NO: Burnside 1214 N-1H 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-1H
API WELL NO
47 — 041 — 05725
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: Btm: Big Isaac
Top: Camden

DISTRICT: Freemans Creek

COUNTY: 05/31/2024

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

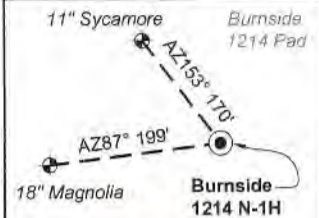
PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,139' TVD
24,780' MD

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



Well Location References
Not to Scale



Lewis Co. - Freeman Creek Dist.

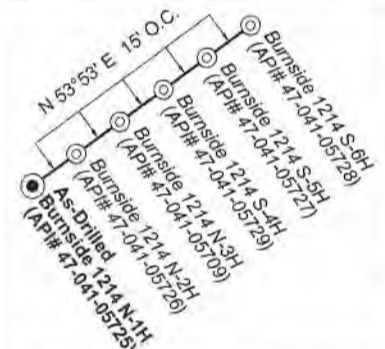
No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 3.2	John K. Burnside, et al	666 / 44	115.00
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3	5C / 41.1	Mike Ross, Inc., et al	676 / 133	2.09
4	5C / 34	Karina K. Rowe	572 / 209	42.00
5	5C / 35	Robert S. Glotfelty	399 / 241	14.77
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12	5C / 30	Woody Lumber Co., Inc.	590 / 438	140.50
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Harrison Co. - Union-Outside Dist.

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38	422 / 27	Gerald & Vicky Hall	1616 / 1220	1.20
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40	421 / 45	Kathy M. Bright	1152 / 298	10.88
41	421 / 44	Matthew C. & Shana L. Gould	1468 / 1020	51.21
42	422 / 23	Matthew C. & Shana L. Gould	1468 / 1020	0.75
43	421 / 44.1	Harrison County Board of Education	519 / 20	0.03
44	422 / 26	Charles G. Dennison	W156 / 747	1.00
45	421 / 44.3	Sherman J. Snider	1392 / 1120	0.65
46	421 / 38	Atlantic Coast Pipeline, LLC	1616 / 421	6.00
47	421 / 40	Sherman J. Snider	1392 / 1120	0.60
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49	421 / 43.3	Ray M. Moser, Jr.	1291 / 1136	29.11
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51	421 / 42	Lynn A. Hughes	1581 / 444	0.14
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20	Joseph H. Bailey, et ux
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26	J.A. White, et ux
27	Guffey Oil & Gas Royalties, Inc., et al
29	Mark E. Hitt
33	William A. Booth, et ux
46	Pamela J. Hughes, et al
47	Bradford W. Lemon, et al

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.)
- Adjoinder surface tracts (approx.)

FILE NO: 236-36-12-19
DRAWING NO: Burnside 1214 N-1H Well Plat
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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-1H
API WELL NO
47 - 041 - 05725
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: **05/31/2024**
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: 24,780' MD 7,139' 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

2,565' to Bottom Hole

6,593' to Top Hole

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

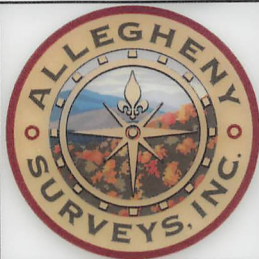
BTM LONGITUDE 80 - 32 - 30
TOP LONGITUDE 80 - 30 - 00

2,233' to Top Hole

1,930' to Bottom Hole

HG Energy II Appalachia, LLC
Well No. Burnside 1214 N-1H
As-Drilled

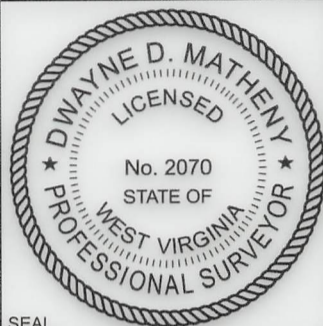
Page 1 of 3



Notes:
Well No. Burnside 1214 N-1H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,206,291.41'
E: 1,775,685.25'
Landing Point Coordinates
N: 14,205,747.40'
E: 1,773,394.40'
Bottom Hole Coordinates
N: 14,221,724.30'
E: 1,767,816.40'

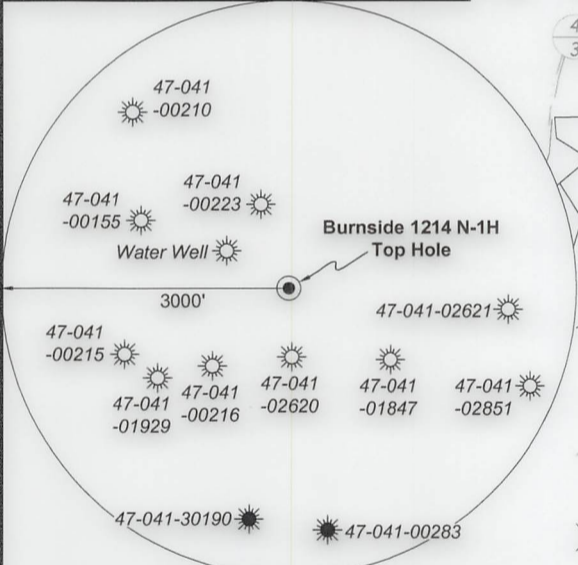
Tag	Bearing	Dist.	Description
L1	S 43°09' W	1,659.6'	Threaded Pipe
L2	N 69°51' W	2,208.0'	Gate Post
L3	N 56°59' W	1,247.6'	#47-041-01847
L4	N 01°46' W	655.9'	#47-041-02620

Notes: Well No. Burnside 1214 N-1H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Latitude: 39°07'07.93" Longitude: 80°31'23.68"
Bottom Hole coordinates Latitude: 39°09'40.93" Longitude: 80°33'02.58"
UTM Zone 17, NAD 1983
Top Hole Coordinates N: 4,330,086.282m E: 541,229.947m
Bottom Hole coordinates N: 4,334,790.236m E: 538,831.516m
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.

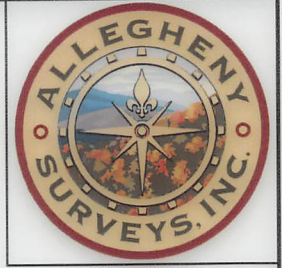
FILE NO: 236-36-12-19
DRAWING NO: Burnside 1214 N-1H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: Submeter
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

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

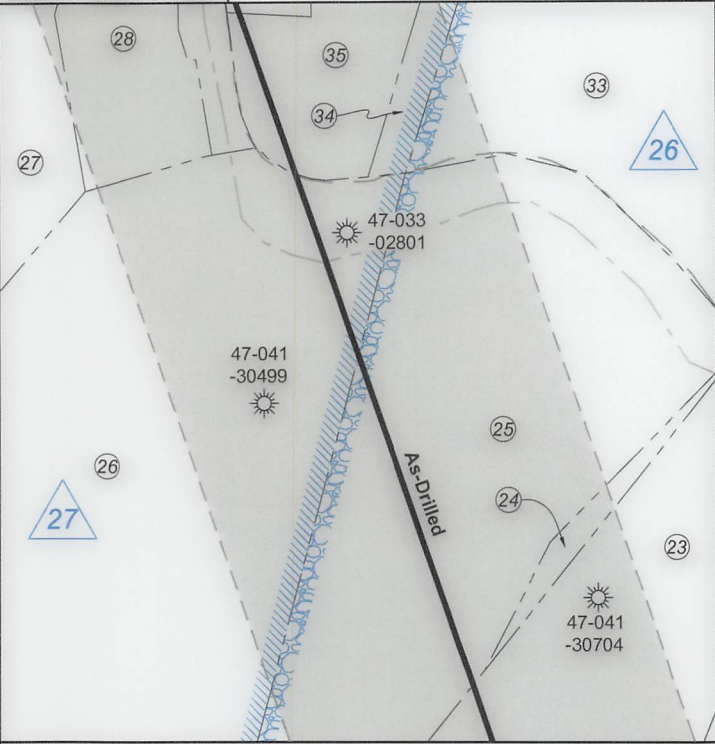
DATE: February 20, 2023
OPERATOR'S WELL NO. Burnside 1214 N-1H
API WELL NO
47 - 041 - 05725
STATE COUNTY PERMIT

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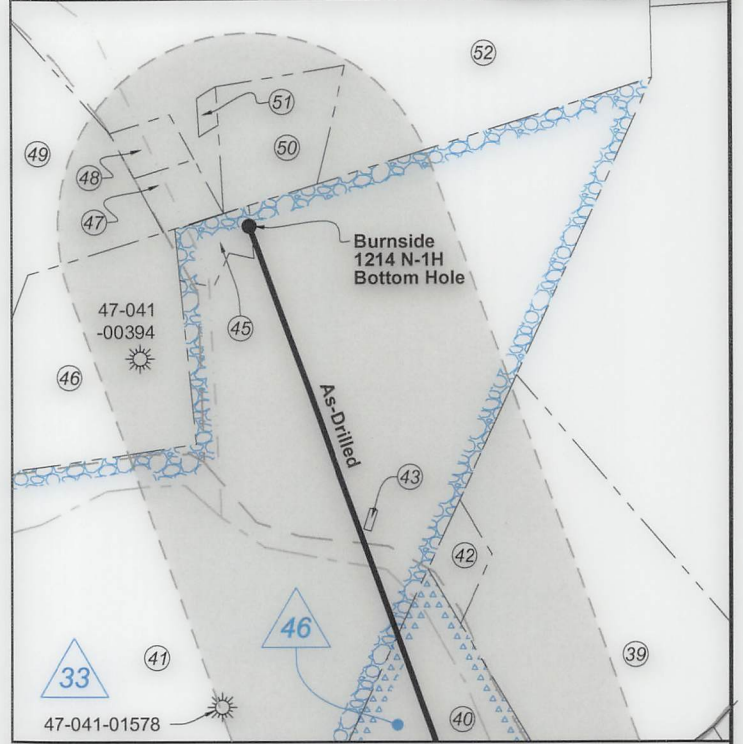
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101



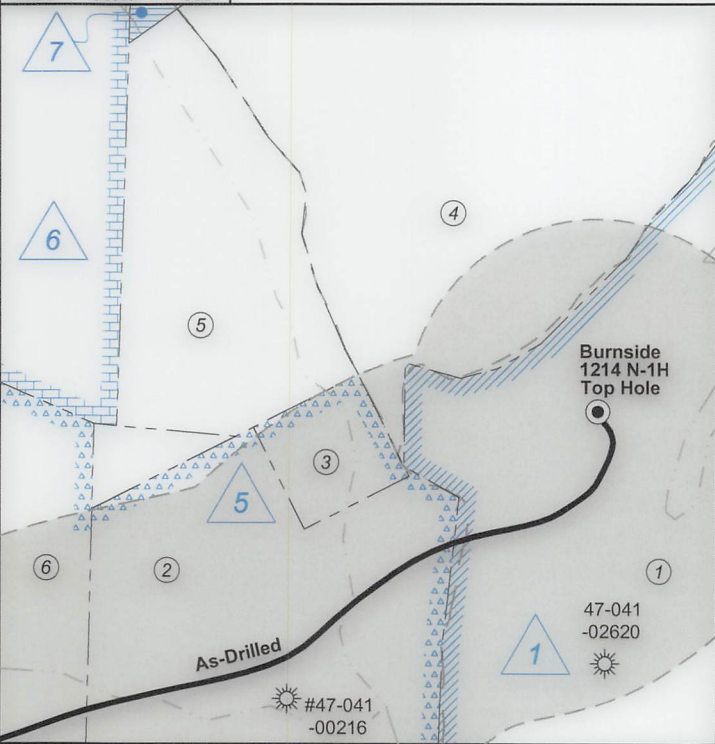
Detail 2 - Scale: 1" = 500"



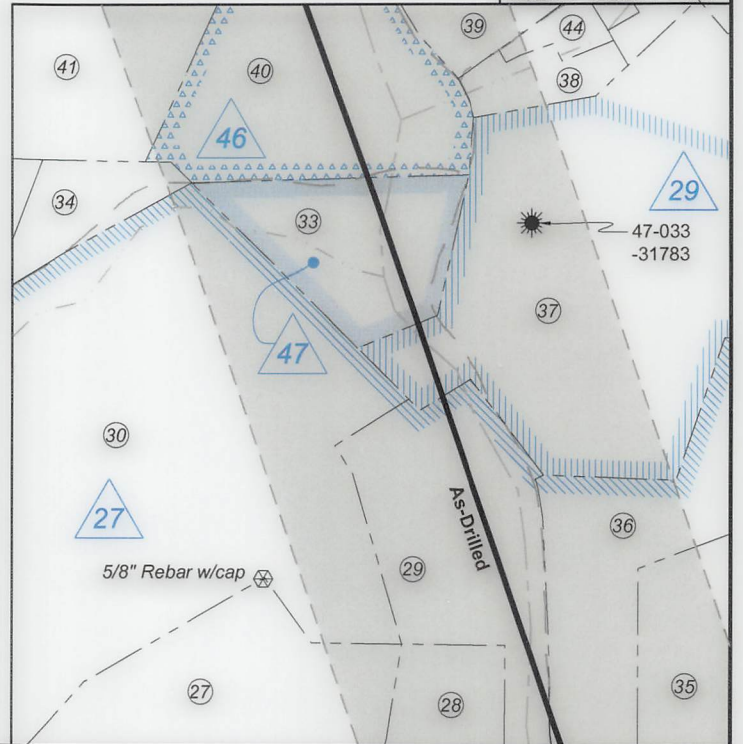
Detail 4 - Scale: 1" = 500"



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QUADRANGLE: Top: Camden
COUNTY: **05/31/2024**
ACREAGE: 115.00

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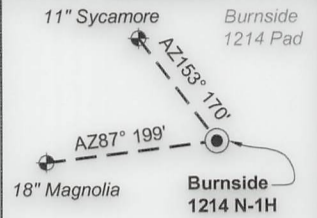
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Well Location References
Not to Scale



Lewis Co. - Freeman Creek Dist.

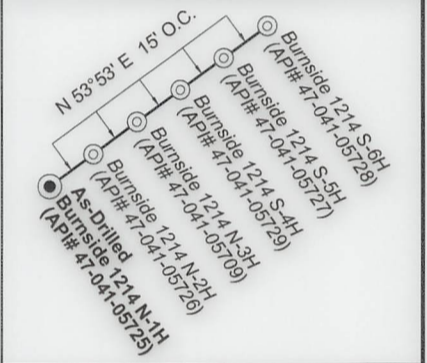
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Wellhead Layout (NTS)



Legend

- Proposed gas well
- Well Reference, as noted
- Monument, as noted
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DEPARTMENT OF ENVIRONMENTAL PROTECTION
OIL AND GAS DIVISION

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Btm: Big Isaac
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ACREAGE: 115.00

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DESIGNATED AGENT: Diane C. White
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