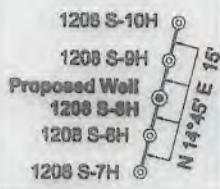


HG Energy II Appalachia, LLC
Well No. 1208 S-8H

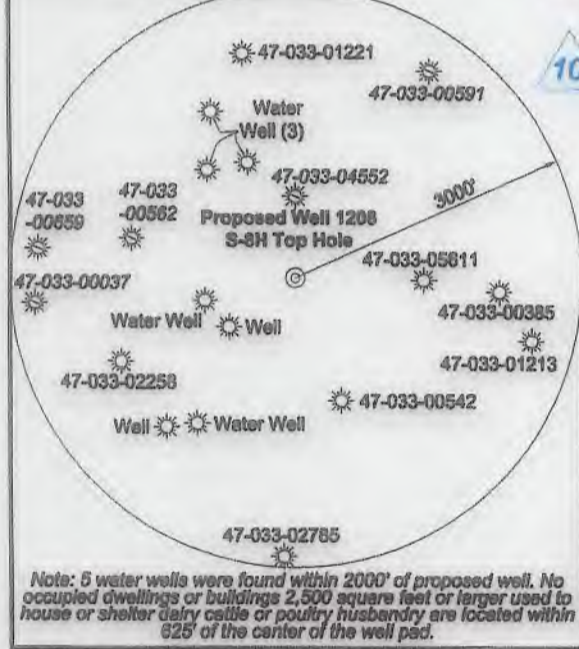
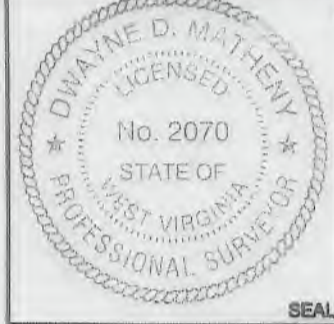
Page 1 of 2

Wellhead Layout
(Not to Scale)



Tag	Bearing	Dist.
L1	S 45°20' E	1,469.9'
L2	S 32°22' E	1,429.6'
L3	S 86°54' W	1,046.6'
L4	N 63°43' W	873.1'
L5	S 29°16' E	468.0'

- 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.)
 - - - Interior surface tracts (approx.)



FILE NO: 195-36-G-18
DRAWING NO: 1208 S-8H 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: June 28 20 19
OPERATOR'S WELL NO. 1208 S-8H
API WELL NO
47 - 033 - 05967
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,147' WATERSHED: Middle West Fork Creek
DISTRICT: Grant / Hackers Creek
SURFACE OWNER: Linda & William W. Brodwater III
ROYALTY OWNER: Leeman B. Maxwell Helrs, et al LEASE NO: ACREAGE: 247.84

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,967' 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



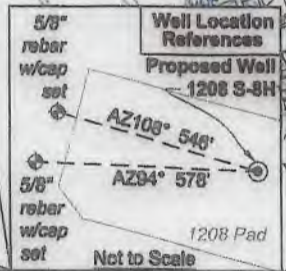
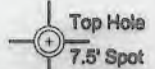
I, the undersigned, hereby certify that this plat is correct to the best of my knowledge and belief and shows all the information required by law and the rules issued and prescribed by the Department of Environmental Protection.
Dwayne D. Matheny, P.S. 2070

Notes: Well No. 1208 S-8H
West Virginia Coordinate System of 1927, South Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
Latitude: 39°09'11.02" Latitude: 39°07'11.52"
Longitude: 80°25'24.40" Longitude: 80°24'25.58"
UTM Zone 17, NAD 1983
Top Hole Coordinates Bottom Hole Coordinates
N: 4,333,930.787m N: 4,330,256.190m
E: 549,833.566m E: 551,269.390m
Plat orientation and corner and well references are based upon the grid north meridian.
Well location references are based upon the magnetic meridian.

Notes:
Well No. 1208 S-8H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,218,904.59' E: 1,803,912.29'
Landing Point Coordinates
N: 14,218,496.38' E: 1,804,141.09'
Bottom Hole Coordinates
N: 14,208,848.86' E: 1,808,823.00'

ID	Lessee
1	Jerome B. Gusman
2	Leeman B. Maxwell Helrs
3	A.J. Smith, et ux
4	W.L. & Flora Hughes
5	Hannah H. Smith
6	Walter Neely, et al
7	Page Hamer Thomas, et al
8	Howard Neely
9	W.A. Jackson
10	Isaac Jackson
11	Pearl Reel
12	William C. White
13	J.W. Jackson
14	Mike Ross, Inc.
15	Garnett M. Conley
16	William White et al.
17.1	Rena H. White
17.2	Lora A. Graves
17.3	Joel & Elaine Flaxer
17.13	Maria C. Gatan
18	David Kent Moss, et al

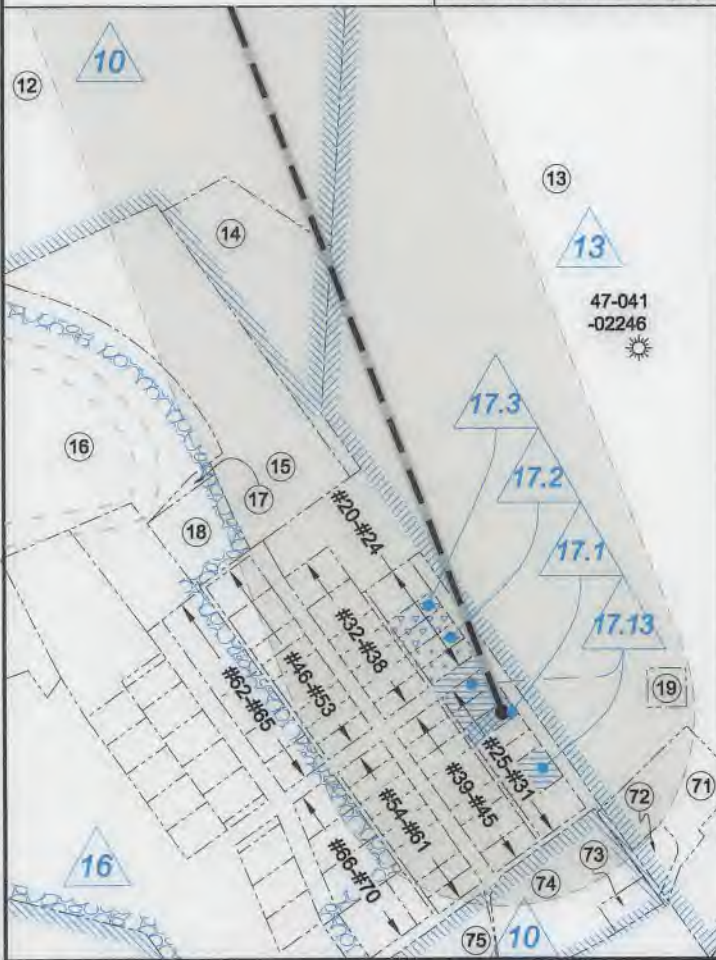
9,045' to Bottom Hole
1,921' to Top Hole
Top Latitude 39 - 10 - 00
Btm Latitude 39 - 07 - 30
Top Longitude 80 - 25 - 00
Btm Longitude 80 - 22 - 30
4,954' to Top Hole
1,862' to Bottom Hole



Detail 1 - Scale: 1" = 500' (4x)



Detail 2 - Scale: 1" = 500' (4x)



Harrison County - Grant-Outside District				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	425 / 31	Linda & William W. Brodwater III	1410 / 1045	247.84
2	445 / 1	Lisa M. Nutter	1599 / 386	87.78
3	445 / 10	Lisa M. Nutter	W687 / 445	66.87
4	445 / 9	Lisa M. Nutter	W687 / 445	105.50
5	445 / 21	Robert Allman, et al	W177 / 231	41.11
6	445 / 32	Patricia T. Garton	1425 / 854	43.15
7	445 / 34	Robert Allman, et al	W177 / 231	4.65
8	445 / 33	Robert Allman, et al	W177 / 231	1.05
9	465 / 4.1	John G. & Rebecca M. Moore	1421 / 350	353.80
10	445 / 46	James W. Riffle II & William L. Law	1385 / 259	140.43
11	465 / 6	John G. & Rebecca M. Moore	1421 / 350	21.37

Lewis County - Hackers Creek District				
No.	TM / Par	Owner	Bk / Pg	Ac.
12	8B / 7	William E. Watson	547 / 164	71.51
13	8C / 55	William C. White	W23 / 102	92.02
14	8C / 54	Jefferson B. or Mary B. Watson	W10 / 163	3.50
15	8C / 53	William E. Watson	W10 / 163	5.87
16	8C / 33.2	C.D. Cole	502 / 70	150.51
17	5 / 62	William C. White	W23 / 102	0.097
18	5 / 63	William C. White	W23 / 102	0.86
19	8C / 55.1	William C. White	W23 / 102	0.50
20	5 / 35	Michael McLaughlin	525 / 343	0.32
21	5 / 36	Lora Graves	389 / 635	0.16
22	5 / 37	Lora Graves	389 / 635	0.16
23	5 / 38	Lora Graves	480 / 569	0.16
24	5 / 39	Lora Graves	480 / 569	0.16
25	5 / 40	Maria C. Gatian	603 / 207	0.16
26	5 / 41	Maria C. Gatian	603 / 207	0.16
27	5 / 41.1	Rema White	395 / 626	0.11
28	5 / 42	Oscar & Dinah Mills	380 / 244	0.16
29	5 / 43	Oscar & Dinah Mills	380 / 244	0.16
30	5 / 44	Maria C. Gatian	603 / 207	0.32
31	5 / 45	Samuel Aman	592 / 743	0.32
32	5 / 32	William C. White	W23 / 102	0.32
33	5 / 31	Melissa A. Turner	614 / 235	0.32
34	5 / 30	Dale Holden	639 / 549	0.16
35	5 / 29	Robert & Shelia Bailey	661 / 38	0.16
36	5 / 28	Robert & Shelia Bailey	661 / 38	0.16
37	5 / 27	Robert & Denise Bennett	497 / 534	0.16
38	5 / 26	Robert & Denise Bennett	497 / 534	0.16
39	5 / 25	Matthew L. Shearer	385 / 562	0.16
40	5 / 24	Donna Posey	393 / 384	0.16
41	5 / 23	Donna Posey	393 / 384	0.16
42	5 / 22	Samuel & Linda Aman	344 / 145	0.32
43	5 / 21	Christopher L. Dobbins	629 / 197	0.16
44	5 / 20	Jerry & Linda Tomes	531 / 576	0.28
45	5 / 18	Gertrude Cooper & Falina Henline	678 / 3	0.20
46	5 / 1	William C. White	W23 / 102	0.32
47	5 / 2	William C. White	W23 / 102	0.32
48	5 / 3	Anna B. Hull	602 / 721	0.16
49	5 / 4	Anna B. Hull	602 / 721	0.16
50	5 / 5	Amilcar & Tammy Lazo	712 / 591	0.32
51	5 / 6	Dale Holden	574 / 554	0.16
52	5 / 7	Dale Holden	574 / 554	0.16
53	5 / 8	Dale Holden	574 / 554	0.16
54	5 / 9	Doris Jeanne Anderson	W45 / 18	0.16
55	5 / 9.1	Thomas E. Cordwell, et al	W45 / 18	0.16
56	5 / 10	Howard Moneypenney	W14 / 31	0.16
57	5 / 11	Howard Moneypenney	W14 / 31	0.16
58	5 / 12	Howard Moneypenney	W14 / 31	0.16
59	5 / 13	Joshua G. Drake	725 / 254	0.32
60	5 / 16	Jeffrey & Anessa Griffith	571 / 10	0.16
61	5 / 17	Jeffrey & Anessa Griffith	571 / 10	0.16
62	8C / 33.7	David D. & Kimberly M. Marple	514 / 156	0.736
63	8C / 33.9	Jack N. & Betty L. Garton	713 / 276	0.35
64	5 / 49	Donna J. Smith	432 / 135	0.27
65	5 / 48	Kenneth & Sheri Ellis	570 / 186	0.27
66	5 / 47	Brenda J. & Walter H. Irvin Jr.	621 / 22	0.33
67	5 / 46.1	Marjorie A. Paugh	425 / 650	0.39
68	5 / 46	Steven E. Scott	515 / 279	0.44
69	5 / 15	Lucy Messenger	W11 / 466	0.48
70	5 / 14	Jeffrey & Anessa Griffith	571 / 10	0.16
71	8C / 55.3	William C. White	670 / 590	1.49
72	8C / 55.2	William C. White II	640 / 269	0.30
73	8C / 52.2	Willard H. McWhorter	309 / 102	0.275
74	8C / 52.1	Julie D. McWhorter	547 / 395	2.135
75	8C / 33.12	Lisa & David Wagner	604 / 150	2.34

FILE NO: 195-36-G-18
DRAWING NO: 1208 S-8H 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: June 28 20 19
OPERATOR'S WELL NO. 1208 S-8H
API WELL NO
47 - 033 -
STATE COUNTY PERMIT

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL
(IF GAS) PRODUCTION: STORAGE DEEP SHALLOW

LOCATION: ELEVATION: 1,147' WATERSHED: Middle West Fork Creek

QUADRANGLE: Top - West Milford
Btm - Weston

DISTRICT: Grant / Hackers Creek

COUNTY: Harrison / Lewis

SURFACE OWNER: Linda & William W. Brodwater III

ACREAGE: 200

ROYALTY OWNER: Leeman B. Maxwell Heirs, et al

LEASE NO: ACREAGE: 247.84

PROPOSED WORK: DRILL CONVERT DRILL DEEPER FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____ 7,050' TVD

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 19,967' 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