

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

API 47-033-05986 County Harrison District Grant  
Quad West Milford Pad Name Antonio 1206 Field/Pool Name Lost Creek  
Farm name Antonio Well Number 1206 S-9H  
Operator (as registered with the OOG) HG Energy II Appalacia, 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 4334417.685 Easting 553383.399  
Landing Point of Curve Northing 4334558.00 Easting 553997.00  
Bottom Hole Northing 4329206.780 Easting 555981.973

Elevation (ft) 1350' 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 GLG, safevert WA

Date permit issued 3/09/2020 Date drilling commenced 10/11/2020 Date drilling ceased 7/3/2021  
Date completion activities began \_\_\_\_\_ Date completion activities ceased \_\_\_\_\_  
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 838, 851, 1102 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 60, 544, 850, 1102, 1106 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
\_\_\_\_\_

API 47-033 - 05986

Farm name Antonio

Well number 1206 S9H ST01

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"	125	New	154.5 lbs/ft		N
Surface	26"	20"	1140	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	2167	New	68 lbs/ft		Yes
Intermediate 2	12.25"	9.625"	2979	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5	5.5	26329	New	23 lbs/ft P-11		Yes
Tubing							
Packer type and depth set							

Comment Details \_\_\_\_\_

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft <sup>3</sup> /sks)	Volume (ft <sup>3</sup> )	Cement Top (MD)	WOC (hrs)
Conductor	Not Cemented						
Surface	Class A	2298	15.6	1.18	2712	Surface	8
Coal							
Intermediate 1	Class A	1879/526	16.0/16.4	1.16/1.12	2180/589	Surface	24
Intermediate 2	Class A	1064	15.6	1.19	1266	Surface	8
Intermediate 3							
Production	Class A	582/379/3971	13.5/13.5/14.8	1.67/1.48/1.34	972/561/5321	Surface	8
Tubing							

Drillers TD (ft) <sup>26647</sup> \_\_\_\_\_ Loggers TD (ft) \_\_\_\_\_

Deepest formation penetrated Marcellus \_\_\_\_\_ Plug back to (ft) Original hole drilled to 1900', plugged back to 1084' then sidetracked

Plug back procedure \_\_\_\_\_

Kick off depth (ft) <sup>6840</sup> \_\_\_\_\_

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

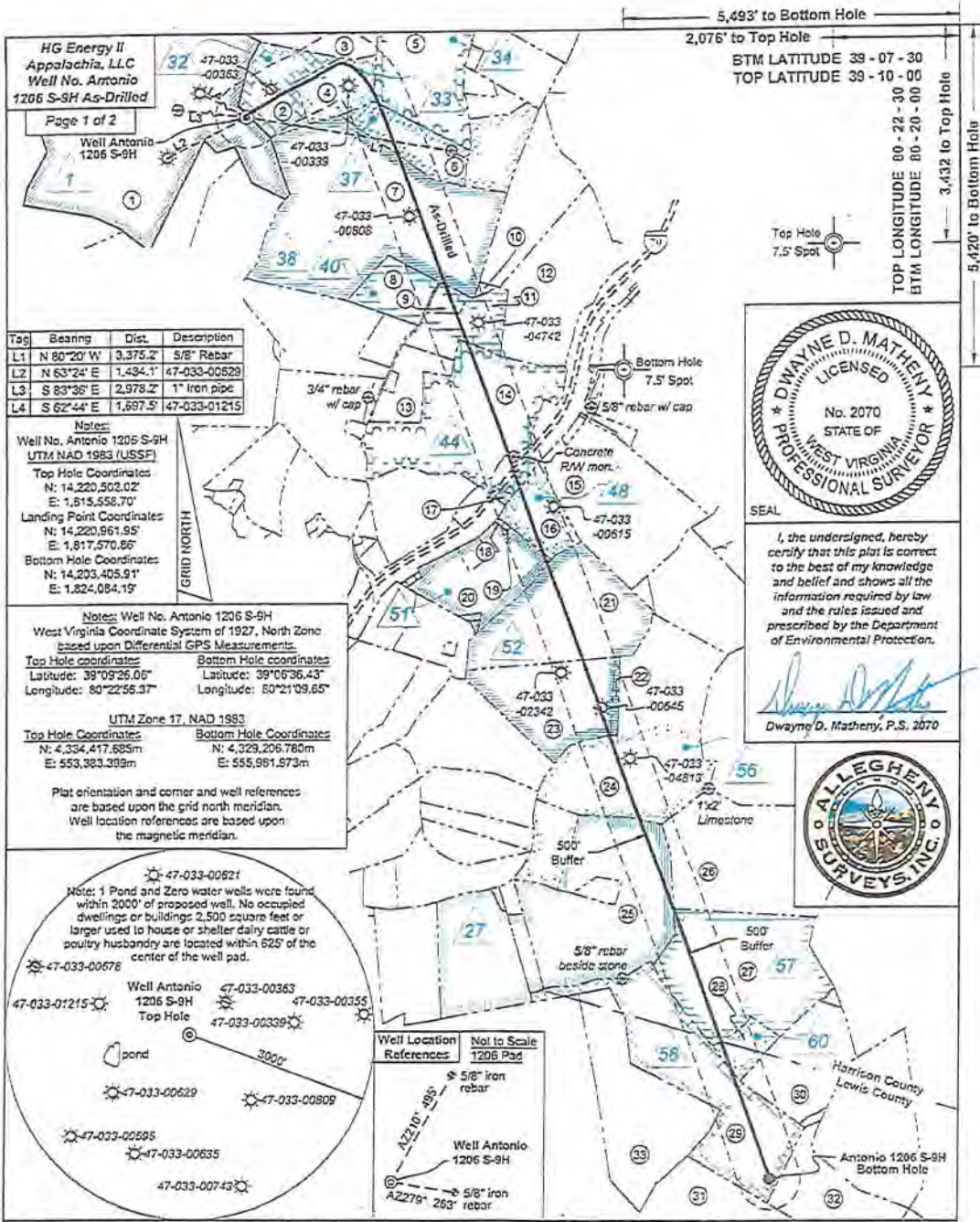
WAS WELL COMPLETED AS SHOT HOLE  Yes  No DETAILS \_\_\_\_\_

WAS WELL COMPLETED OPEN HOLE?  Yes  No DETAILS \_\_\_\_\_

WERE TRACERS USED  Yes  No TYPE OF TRACER(S) USED \_\_\_\_\_







HG Energy II Appalachia, LLC  
Well No. Antonio  
1206 S-9H As-Drilled

Page 1 of 2

Well Antonio  
1206 S-9H

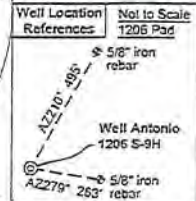
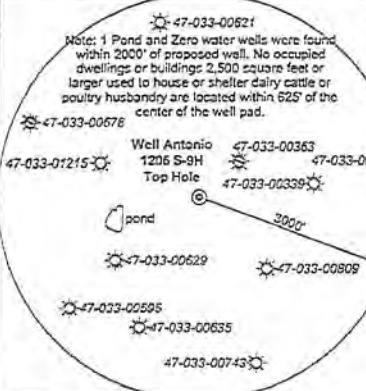
Tag	Bearing	Dist.	Description
L1	N 80°20' W	3,375.2'	5/8" Rebar
L2	N 63°24' E	1,434.1'	47-033-00529
L3	S 83°36' E	2,979.2'	1" Iron pipe
L4	S 62°44' E	1,697.5'	47-033-01215

**Notes:**  
Well No. Antonio 1206 S-9H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,220,502.02'  
E: 1,515,556.70'  
Landing Point Coordinates  
N: 14,220,961.95'  
E: 1,817,570.86'  
Bottom Hole Coordinates  
N: 14,203,405.91'  
E: 1,824,084.19'

**Notes:** Well No. Antonio 1206 S-9H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates      Bottom Hole coordinates  
Latitude: 39°09'26.06"      Latitude: 39°06'36.43"  
Longitude: 80°22'55.37"      Longitude: 80°21'09.65"

UTM Zone 17, NAD 1983  
Top Hole Coordinates      Bottom Hole Coordinates  
N: 4,334,417.685m      N: 4,329,209.780m  
E: 553,383.399m      E: 555,961.673m

Plat orientation and corner and well references are based upon the grid north meridian.  
Well location references are based upon the magnetic meridian.



5,493' to Bottom Hole  
2,076' to Top Hole  
BTM LATITUDE 39 - 07 - 30  
TOP LATITUDE 39 - 10 - 00  
TOP LONGITUDE 80 - 22 - 30  
BTM LONGITUDE 80 - 20 - 00  
3,432 to Top Hole  
5,420' to Bottom Hole



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



FILE NO: 06-35-12-G-H-19  
DRAWING NO: Antonio 1206 S-9H As-Drilled  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

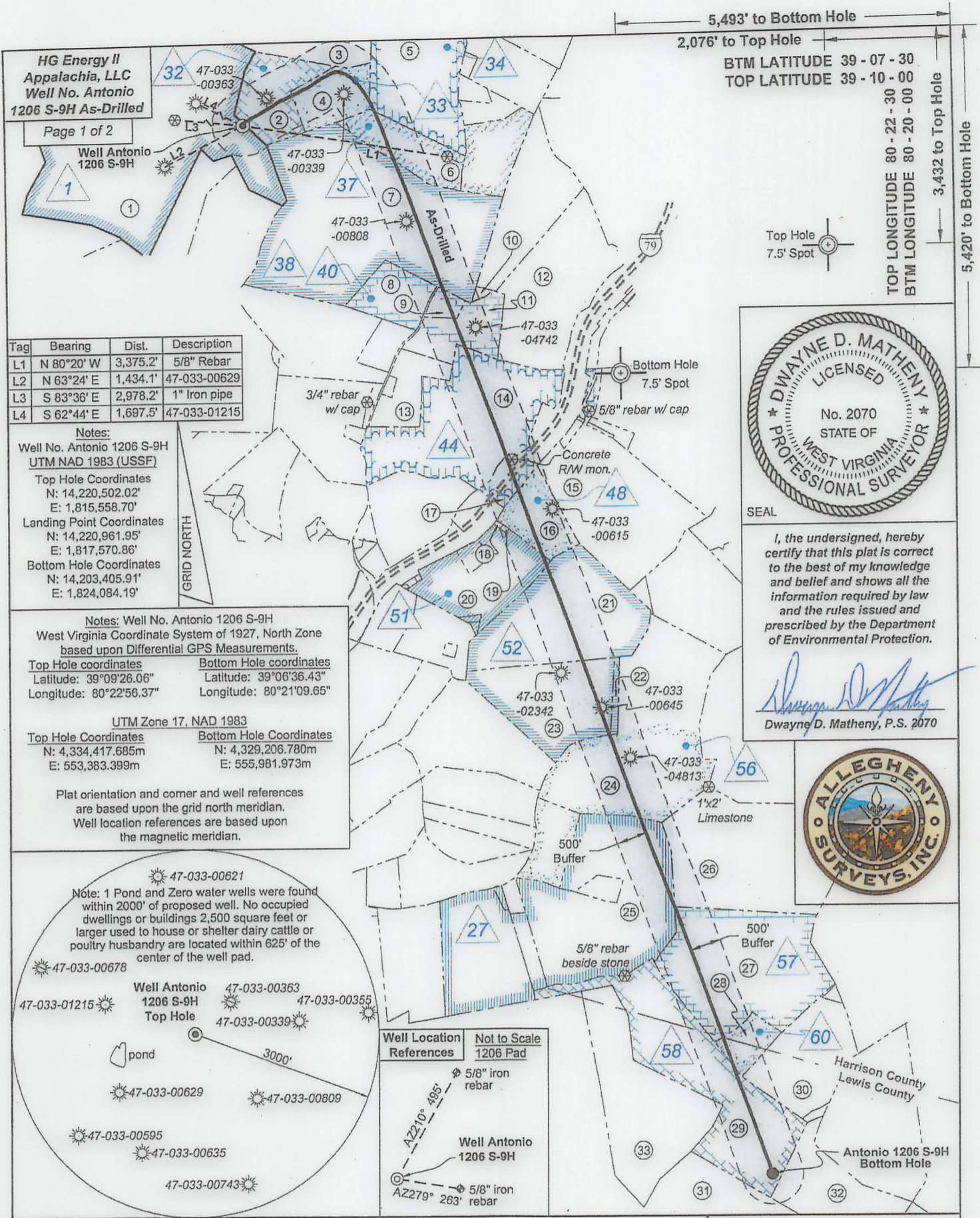
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE: November 22, 2021  
OPERATOR'S WELL NO. Antonio 1206 S-9H  
API WELL NO  
47 - 033 - 05986  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,350' WATERSHED: Middle West Fork Creek QUADRANGLE: West Mitford  
DISTRICT: Grant COUNTY: Harrison  
SURFACE OWNER: Antonio P., LLC ACREAGE: 233.35  
ROYALTY OWNER: C. Earl Snider, et al LEASE NO: ACREAGE:  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ 7,895' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 25,647' 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



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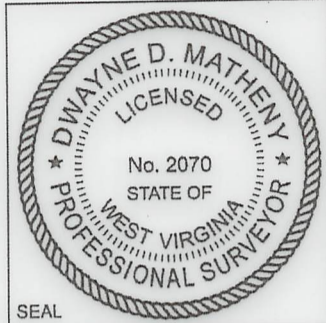
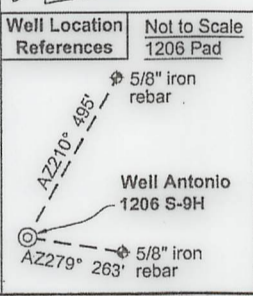
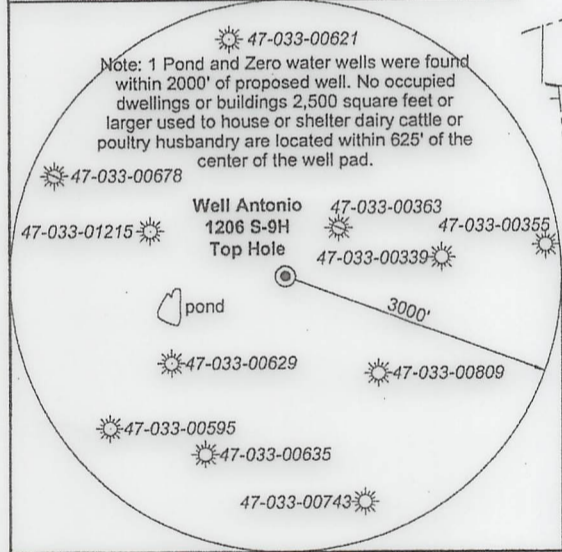
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FILE NO: 06-36-12-G-H-19  
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 MINIMUM DEGREE OF ACCURACY:  
 Submeter  
 PROVEN SOURCE OF ELEVATION:  
 CORS, Bridgeport, WV

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

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 API WELL NO  
 47 - 033 - 05986  
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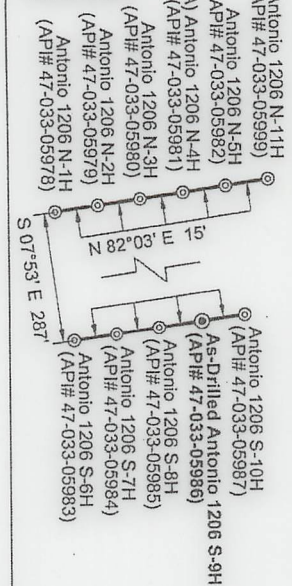
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 SURFACE OWNER: Antonio P., LLC COUNTY: Harrison  
 ROYALTY OWNER: C. Earl Snider, et al LEASE NO: ACREAGE: 233.35

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) \_\_\_\_\_ 7,898' TVD  
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 ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road  
 Parkersburg, WV 26101 Parkersburg, WV 26101



Wellhead Layout  
(Not to Scale)



Harrison County - Grant Outside District				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	426 / 71	Antonio P., LLC	1503 / 291	233.35
2	426 / 72	AL-N-EL Farms, Inc.	1623 / 1057	30.00
3	426 / 63	AL-N-EL Farms, Inc.	1623 / 1057	51.33
4	426 / 73	AL-N-EL Farms, Inc.	1623 / 1057	22.96
5	426 / 74	Harriet June Ferree, et al	1514 / 480	60.30
6	446 / 4	Bob R. Blankenship	1310 / 750	27.67
7	446 / 3	Antonio P., LLC	1503 / 291	200.00
8	446 / 23	Ann A. & William S. Davisson	1466 / 431	21.46
9	446 / 23.1	Ann A. & William S. Davisson	1405 / 277	5.00
10	446 / 6.2	Kenneth R. Maxwell	1548 / 896	0.97
11	446 / 23.2	Ann A. & William S. Davisson	1466 / 431	25.10
12	446 / 24	Robert N. Rector	1621 / 719	82.90
13	446 / 23.3	Greg G. & Cathy L. Burnside	1465 / 84	19.35
14	446 / 34	David & Daniel Curry	1451 / 987	97.41
15	446 / 48	AL-N-EL Farms, Inc.	1623 / 1057	98.75
16	446 / 47	AL-N-EL Farms, Inc.	1623 / 1057	27.00
17	446 / 44	Mary M. Myres	F112 / 625	0.23
18	446 / 45	Chad W. Owens	1546 / 721	0.20
19	446 / 46	Chad W. Owens	1546 / 721	0.31
20	466 / 17	AL-N-EL Farms, Inc.	1623 / 1057	43.38
21	466 / 18	AL-N-EL Farms, Inc.	1623 / 1057	82.50
22	466 / 37	AL-N-EL Farms, Inc.	1623 / 1057	11.50
23	466 / 36	AL-N-EL Farms, Inc.	1623 / 1057	50.00
24	466 / 38	AL-N-EL Farms, Inc.	1623 / 1057	123.00
25	466 / 70	Frank N. Wine Jr & III	1596 / 809	114.77
26	466 / 56	AL-N-EL Farms, Inc.	1623 / 1057	110.00
27	466 / 71	Joyce A. & Vernon D. Cochran, Jr.	1253 / 240	91.79
Lewis County - Hackers Creek District				
No.	TM / Par	Owner	Bk / Pg	Ac.
28	9C / 48	Everet Randolph	W28 / 236	12.11
29	9C / 40	Rose A. Kolb Irrev. Trust & John Hunter	769 / 157	101.25
30	9C / 41	Elizabeth J. Hicks	W26 / 481	47.37
31	9C / 38	Thomas C. Kennedy Testamentary Trust	W34 / 428	91.20
32	10C / 74	Myrtle B. Arbogast	W17 / 218	48.90
33	9C / 39	Rose A. Kolb Irrev. Trust & John Hunter	769 / 157	81.51

Legend	
⊙	Proposed gas well
⊕	Well Reference, as noted
⊗	Monument, as noted
☀	Existing Well, as noted
☀	Existing Plugged Well, as noted
☀	Digitized Well, as noted
—	Surface boundary (approx.)
- - -	Interior surface tracts (approx.)
- - -	Creek or Drain
- - -	Existing Road

ID	Lease
1	C. Earl Snider, et al
27	H.A. Boylen, et al
32	Alton Bell, et al
33	Alton Bell
34	Marcella R. Bond, et al
37	Lillie Gifford, et al
38	Lloyd Stout, et al
40	L.B. Davisson
44	Lucy Davisson
48	Allen M. Dyer, et al
51	Paul A. Davisson, et al
52	N.A. McWhorter, et al
56	Sopha McWhorter, et al
57	Alicinda B. Jackson, et vir
58	J.W.C. Kolb, et al
60	Brooks Randolph, et al

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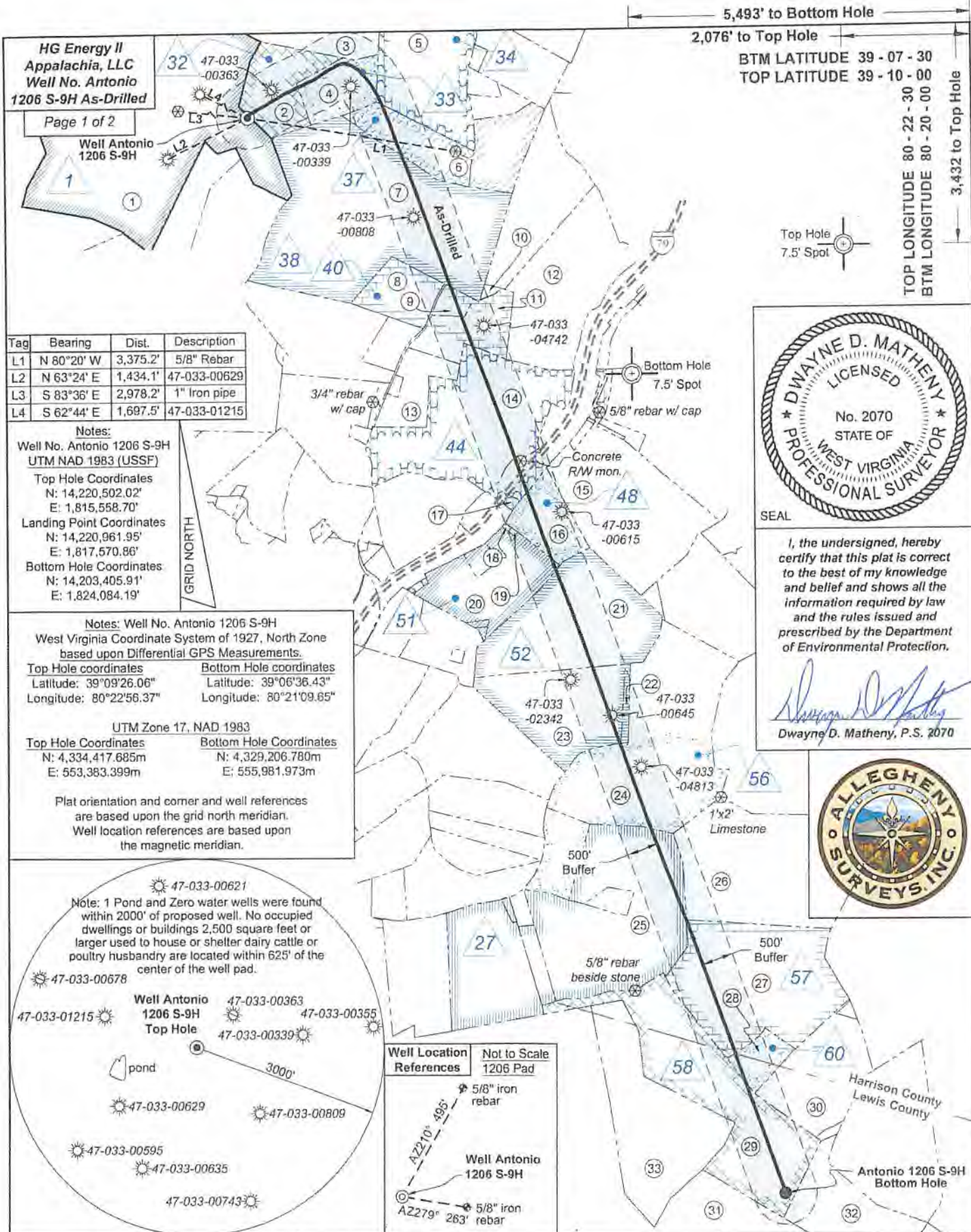
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DESIGNATED AGENT: Diane C. White  
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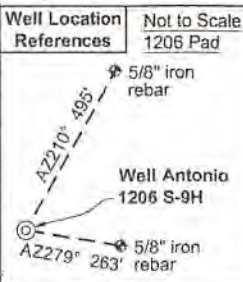
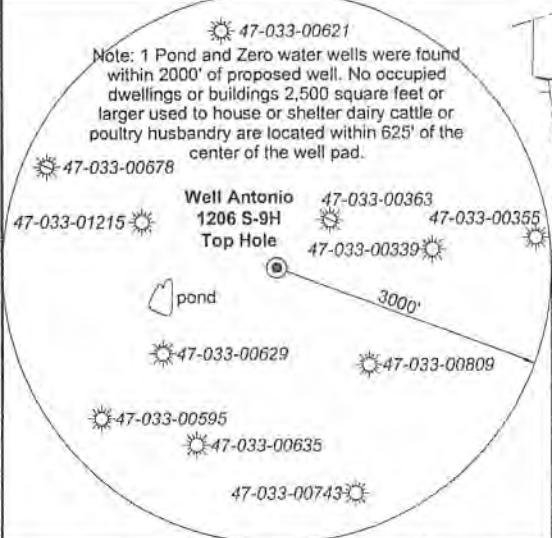
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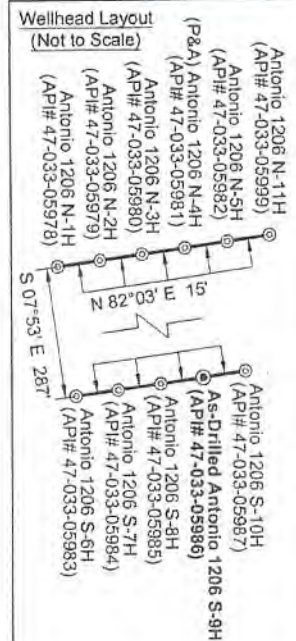
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14	446 / 34	David & Daniel Curry	1451 / 987	97.41
15	446 / 48	AL-N-EL Farms, Inc.	1623 / 1057	98.75
16	446 / 47	AL-N-EL Farms, Inc.	1623 / 1057	27.00
17	446 / 44	Mary M. Myres	F112 / 625	0.23
18	446 / 45	Chad W. Owens	1546 / 721	0.20
19	446 / 46	Chad W. Owens	1546 / 721	0.31
20	466 / 17	AL-N-EL Farms, Inc.	1623 / 1057	43.38
21	466 / 18	AL-N-EL Farms, Inc.	1623 / 1057	82.50
22	466 / 37	AL-N-EL Farms, Inc.	1623 / 1057	11.50
23	466 / 36	AL-N-EL Farms, Inc.	1623 / 1057	50.00
24	466 / 38	AL-N-EL Farms, Inc.	1623 / 1057	123.00
25	466 / 70	Frank N. Wine Jr & III	1596 / 809	114.77
26	466 / 56	AL-N-EL Farms, Inc.	1623 / 1057	110.00
27	466 / 71	Joyce A. & Vernon D. Cochran, Jr.	1253 / 240	91.79
Lewis County - Hackers Creek District				
No.	TM / Par	Owner	Bk / Pg	Ac.
28	9C / 48	Everet Randolph	W28 / 236	12.11
29	9C / 40	Rose A. Kolb Irrev. Trust & John Hunter	769 / 157	101.25
30	9C / 41	Elizabeth J. Hicks	W26 / 481	47.37
31	9C / 38	Thomas C. Kennedy Testamentary Trust	W34 / 428	91.20
32	10C / 4	Myrtle B. Arbogast	W17 / 218	48.90
33	9C / 39	Rose A. Kolb Irrev. Trust & John Hunter	769 / 157	81.51

Legend

- ⊙ Proposed gas well
- ⊕ Well Reference, as noted
- ⊗ Monument, as noted
- ☀ Existing Well, as noted
- ☀ Existing Plugged Well, as noted
- ☀ Digitized Well, as noted
- Surface boundary (approx.)
- Interior surface tracts (approx.)
- - - Creek or Drain
- - - Existing Road

ID	Lease
1	C. Earl Snider, et al
27	H.A. Boylen, et al
32	Alton Bell, et al
33	Alton Bell
34	Marcella R. Bond, et al
37	Lillie Gifford, et al
38	Lloyd Stout, et al
40	L.B. Davisson
44	Lucy Davisson
48	Allen M. Dyer, et al
51	Paul A. Davisson, et al
52	N.A. McWhorter, et al
56	Sopha McWhorter, et al
57	Alcinda B. Jackson, et vir
58	J.W.C. Kolb, et al
60	Brooks Randolph, et al

FILE NO: 06-36-12-G-H-19  
DRAWING NO: Antonio 1206 S-9H As-Drilled  
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: November 22 2021  
OPERATOR'S WELL NO. Antonio 1206 S-9H  
API WELL NO  
47 — 033 — 05986  
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,350' WATERSHED: Middle West Fork Creek  
DISTRICT: Grant

QUADRANGLE: West Milford  
COUNTY: Harrison  
ACREAGE: 233.35

SURFACE OWNER: Antonio P., LLC  
ROYALTY OWNER: C. Earl Snider, et al

LEASE NO: \_\_\_\_\_ ACREAGE: \_\_\_\_\_

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: 7,898' TVD 26,847' 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**

**Antonio 1206 S-9H**

**Lithology Report**

Formation	Top Depth TMD	Top Depth TVD	Bottom Depth TMD	Bottom Depth TVD
Coal	70	70	72	72
Coal	554	554	556	556
Big Dunkar	610	610	700	700
Coal	838	838	851	851
1st Salt Sar	904	904	1004	1004
2nd Salt Sa	1119	1119	1179	1179
Deepest co	1102	1102	1108	1108
3rd Salt Sa	1212	1212	1262	1262
Upper Max	1352	1352	1367	1367
Little Lime	1580	1580	1600	1600
Big Lime	1622	1622	1684	1684
Big Injun	1683	1683	1795	1795
Gantz	2010	2010	2084	2083
50' Sand	2120	2120	2114	2182
		2169		
30 foot Sar	2207	2207	2227	2226
Gordon Str	2257	2257	2300	2298
Gordon	2294	2293	2417	2414
4th Sand	2414	2412	2462	2459
4th sand "A	2473	2470	2494	2491
5th Sand	2544	2540	2558	2554
		3000		
Upper Spee	3129	3121	3159	3151
Lower Spee	3241	3231	3260	3250
Benson	4653	4533	4681	4558
Rhinstree	6071	5795	6954	6579
Cashaqua	6954	6579	7228	6812
Middlesex	7228	6812	7358	6913
West River	7358	6913	7527	7031
Burket	7527	7031	7588	7069
Tully	7588	7069	7745	7157
Hamilton	7745	7157	7898	7223
Marcellus	7898	7223	26647	7226

**HG Energy II Appalachia, LLC**

**Antonio 1206 S-9H**

**Perforation Record**

Stage #	Perforation Date	Perforation from Depth	Perforation to Depth	Number of Perforations	Formation
Sleeve / 1	11/19/2021	26557	26532	2	Marcellus
2	11/20/2021	26498	26330	28	Marcellus
3	11/21/2021	26302	26134	28	Marcellus
4	11/21/2021	26106	25938	28	Marcellus
5	11/22/2021	25910	25742	28	Marcellus
6	11/22/2021	25714	25546	28	Marcellus
7	11/23/2021	25518	25350	28	Marcellus
8	11/23/2021	25322	25154	28	Marcellus
9	11/24/2021	25126	24958	28	Marcellus
10	11/25/2021	24930	24762	28	Marcellus
11	11/25/2021	24734	24566	28	Marcellus
12	11/26/2021	24538	24370	28	Marcellus
13	11/26/2021	24342	24174	28	Marcellus
14	11/27/2021	24146	23978	28	Marcellus
15	11/28/2021	23950	23782	28	Marcellus
16	11/28/2021	23754	23586	28	Marcellus
17	11/29/2021	23558	23390	28	Marcellus
18	11/29/2021	23362	23194	28	Marcellus
19	11/30/2021	23166	22998	28	Marcellus
20	11/30/2021	22970	22802	28	Marcellus
21	12/1/2021	22774	22606	28	Marcellus
22	12/1/2021	22578	22410	28	Marcellus
23	12/2/2021	22382	22214	28	Marcellus
24	12/2/2021	22186	22018	28	Marcellus
25	12/3/2021	21990	21822	28	Marcellus
26	12/3/2021	21794	21626	28	Marcellus
27	12/4/2021	21598	21430	28	Marcellus
28	12/4/2021	21402	21234	28	Marcellus
29	12/4/2021	21206	21038	28	Marcellus
30	12/4/2021	21010	20842	28	Marcellus
31	12/5/2021	20814	20646	28	Marcellus
32	12/5/2021	20618	20450	28	Marcellus
33	12/5/2021	20422	20254	28	Marcellus
34	12/6/2021	20226	20058	28	Marcellus
35	12/6/2021	20030	19862	28	Marcellus
36	12/6/2021	19834	19666	28	Marcellus
37	12/7/2021	19638	19470	28	Marcellus
38	12/7/2021	19442	19274	28	Marcellus
39	12/7/2021	19246	19078	28	Marcellus
40	12/8/2021	19050	18882	28	Marcellus
41	12/8/2021	18854	18686	28	Marcellus
42	12/8/2021	18658	18490	28	Marcellus
43	12/8/2022	18462	18294	28	Marcellus
44	12/9/2021	18266	18098	28	Marcellus
45	12/9/2021	18070	17902	28	Marcellus
46	12/10/2021	17874	17706	28	Marcellus
47	12/10/2021	17678	17510	28	Marcellus
48	12/10/2021	17482	17314	28	Marcellus
49	12/10/2021	17286	17118	28	Marcellus
50	12/11/2021	17090	16922	28	Marcellus
51	12/11/2021	16894	16726	28	Marcellus
52	12/11/2021	16698	16530	28	Marcellus
53	12/12/2021	16502	16334	28	Marcellus
54	12/12/2021	16306	16138	28	Marcellus

55	12/12/2021	16110	15942	28	Marcellus
56	12/12/2021	15914	15746	28	Marcellus
57	12/13/2021	15718	15550	28	Marcellus
58	12/13/2021	15522	15354	28	Marcellus
59	12/13/2021	15326	15158	28	Marcellus
60	12/14/2021	15130	14962	28	Marcellus
61	12/14/2021	14934	14766	28	Marcellus
62	12/14/2021	14738	14570	28	Marcellus
63	12/14/2021	14543	14375	28	Marcellus
64	12/15/2021	14349	14181	28	Marcellus
65	12/15/2021	14155	13987	28	Marcellus
66	12/15/2021	13961	13793	28	Marcellus
67	12/15/2021	13767	13599	28	Marcellus
68	12/16/2021	13573	13405	28	Marcellus
69	12/16/2021	13379	13211	28	Marcellus
70	12/16/2021	13185	13017	28	Marcellus
71	12/17/2021	12991	12823	28	Marcellus
72	12/17/2021	12797	12629	28	Marcellus
73	12/17/2021	12603	12435	28	Marcellus
74	12/17/2021	12409	12241	28	Marcellus
75	12/18/2021	12215	12047	28	Marcellus
76A	12/18/2021	12021	11853	28	Marcellus
76B	12/19/2021	12021	11836	56	Marcellus
77	12/19/2021	11809	11653	28	Marcellus
78	12/20/2021	11627	11465	28	Marcellus
79	12/20/2021	11439	11271	28	Marcellus
80	12/20/2021	11245	11077	28	Marcellus
81	12/21/2021	11051	10883	28	Marcellus
82	12/21/2021	10857	10689	28	Marcellus
83	12/21/2021	10663	10495	28	Marcellus
84	12/22/2021	10469	10301	28	Marcellus
85	12/22/2021	10275	10107	28	Marcellus
86	12/22/2021	10081	9913	28	Marcellus
87	12/22/2021	9887	9719	28	Marcellus
88	12/23/2021	9693	9525	28	Marcellus
89	12/23/2021	9499	9331	28	Marcellus
90	12/23/2021	9305	9137	28	Marcellus
91	12/23/2021	9111	8943	28	Marcellus
92	12/24/2021	8917	8749	28	Marcellus
93	12/24/2021	8723	8555	28	Marcellus
94	12/24/2021	8529	8361	28	Marcellus
95	12/25/2021	8335	8167	28	Marcellus
96	12/25/2021	8141	7973	28	Marcellus

**HG Energy II Appalachia, LLC**

**Antonio 1206 S-9H**

**Stimulation Record**

Stage #	Date	Average Pump rate (BPM)	Average Treatment Press (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve / 1	11/19/2021	25.0	9895	N/A	6220	0	4,671
2	11/20/2021	72.0	10,352	8,905	5,366	558080	13,517
3	11/21/2021	73.7	10,320	8,752	5,834	412987	11,880
4	11/21/2021	76.2	10,290	7,207	5,488	699540	14,962
5	11/22/2021	81.0	10,318	7,124	5,647	700000	14,880
6	11/22/2021	83.3	10,475	6,434	5,163	701800	13,256
7	11/23/2021	83.0	10,311	6,851	5,476	702920	12,784
8	11/23/2021	84.8	10,599	7,068	6,077	705200	12,110
9	11/24/2021	87.0	10,532	6,356	6,041	704300	11,438
10	11/25/2021	86.0	10,516	6,752	5,626	644120	9,614
11	11/25/2021	87.0	10,358	4,696	5,788	640000	9,552
12	11/26/2021	81.7	10,437	6,195	5,166	587100	16,181
13	11/26/2021	80.0	10,113	6,510	5,942	705600	11,583
14	11/27/2021	83.0	10,451	6,155	6,476	688600	12,939
15	11/28/2021	84.1	10,505	7,270	5,227	705300	11,676
16	11/28/2021	74.0	10,500	6,790	6,846	705600	11,689
17	11/29/2021	82.8	10,304	7,450	5,877	705400	11,840
18	11/29/2021	81.0	10,377	6,686	5,973	705500	11,592
19	11/30/2021	83.5	10,650	6,091	5,795	647700	10,501
20	11/30/2021	83.0	10,467	6,900	5,606	673900	10,562
21	12/1/2021	80.7	10,682	6,933	6,092	700350	11,401
22	12/1/2021	87.0	10,527	6,820	5,798	704600	12,170
23	12/2/2021	82.0	10,601	6,428	6,143	636960	13,281
24	12/2/2021	82.0	10,604	6,100	5,648	704500	11,177
25	12/3/2021	83.7	10,532	6,933	6,113	455670	8,493
26	12/3/2021	81.0	10,070	6,990	5,927	705200	9,874
27	12/4/2021	80.0	10,132	6,833	5,917	705800	9,857
28	12/4/2021	81.5	10,051	6,461	6,166	705200	9,797
29	12/4/2021	84.3	10,331	4,933	5,872	612600	9,433
30	12/4/2021	80.0	10,287	7,247	5,043	660500	10,708
31	12/5/2021	82.4	10,556	7,220	5,469	649400	9,637
32	12/5/2021	81.8	10,281	6,762	6,201	705350	11,418
33	12/5/2021	84.0	10,147	7,078	6,488	705300	9,648
34	12/6/2021	82.0	10,401	7,659	6,429	671500	9,855
35	12/6/2021	84.6	10,403	6,957	5,250	705300	11,384
36	12/6/2021	79.0	9,560	7,345	5,865	705200	9,813
37	12/7/2021	87.3	10,331	7,485	6,193	635250	9,564
38	12/7/2021	88.9	10,120	6,490	5,892	676000	9,720
39	12/7/2021	86.0	10,108	6,479	N/A	551600	8,591
40	12/8/2021	87.0	10,260	6,780	6,175	678560	9,407
41	12/8/2021	81.8	10,157	6,582	5,721	665000	9,769
42	12/8/2021	87.0	10,163	6,514	5,230	705400	9,817
43	12/8/2022	87.0	10,365	6,612	5,216	705200	12,045
44	12/9/2021	86.0	10,517	6,968	5,158	515540	10,117
45	12/9/2021	86.0	10,180	6,941	5,904	665000	11,618
46	12/10/2021	88.0	10,175	6,940	5,460	606540	13,200
47	12/10/2021	85.0	10,081	6,824	5,782	605000	11,666
48	12/10/2021	88.0	10,055	6,630	6,112	672000	10,783
49	12/10/2021	84.0	97,925	7,100	5,296	700100	12,605
50	12/11/2021	83.0	9,794	6,880	5,975	601440	12,056
51	12/11/2021	90.0	9,940	6,769	5,630	690000	11,741
52	12/11/2021	91.0	10,288	7,025	5,480	581880	12,013
53	12/12/2021	90.0	9,970	7,330	5,707	644860	10,403

54	12/12/2021	94.0	10,251	6,495	5,999	700230	12,190
55	12/12/2021	92.0	10,253	6,512	5,855	692200	13,484
56	12/12/2021	89.0	10,203	6,923	4,952	525640	11,201
57	12/13/2021	89.0	9,830	6,940	5,118	686880	10,869
58	12/13/2021	98.0	10,306	6,756	5,661	719500	12,160
59	12/13/2021	99.0	10,143	6,450	5,846	715800	12,638
60	12/14/2021	89.0	9,881	6,580	6,024	720900	13,209
61	12/14/2021	97.0	9,949	6,788	5,930	720540	11,065
62	12/14/2021	97.0	9,836	6,146	6,208	713000	11,126
63	12/14/2021	90.0	10,008	6,526	6,260	700540	14,071
64	12/15/2021	86.0	9,210	5,595	5,740	720708	10,053
65	12/15/2021	89.0	9,157	6,514	4,950	654800	10,887
66	12/15/2021	98.0	10,110	6,021	5,872	719500	11,243
67	12/15/2021	94.0	9,954	6,933	5,951	720020	11,843
68	12/16/2021	88.0	10,054	7,165	5,324	720600	9,897
69	12/16/2021	97.0	9,325	5,892	6,486	720100	10,586
70	12/16/2021	93.0	9,396	7,491	5,665	664500	9,612
71	12/17/2021	98.0	9,659	6,926	5,554	690440	9,861
72	12/17/2021	93.0	9,581	6,306	5,356	678840	9,966
73	12/17/2021	92.0	8,763	6,964	5,690	720100	10,038
74	12/17/2021	92.0	10,048	7,177	5,021	386000	8,929
75	12/18/2021	104.0	9,468	6,670	4,705	720380	11,868
76A	12/18/2021	85.0	10,000	6,887	5,004	117430	9,928
76B	12/19/2021	84.0	7,841	6,597	5,674	740000	13,269
77	12/19/2021	100.0	9,299	6,050	5,376	740100	11,393
78	12/20/2021	99.0	9,148	6,361	4,893	740100	11,433
79	12/20/2021	96.0	8,417	3,527	5,725	718860	12,314
80	12/20/2021	96.0	9,638	6,819	4,985	740700	12,659
81	12/21/2021	94.0	8,880	6,633	5,084	740400	12,695
82	12/21/2021	95.0	8,103	4,666	5,695	740420	11,820
83	12/21/2021	93.0	8,005	6,286	4,578	740100	11,843
84	12/22/2021	98.0	9,392	6,428	5,355	299134	9,027
85	12/22/2021	97.0	8,349	5,434	5,102	740080	12,091
86	12/22/2021	96.0	7,842	5,269	5,429	740125	11,198
87	12/22/2021	98.5	8355	6200	6342	740200	11375
88	12/23/2021	97.4	8344	6339	6436	740200	11278
89	12/23/2021	96.1	8359	7406	5821	740100	11400
90	12/23/2021	97	8350	4679	5846	740200	11120
91	12/23/2021	99.9	8489	6532	5081	740100	11644
92	12/24/2021	99.5	8216	6100	6300	740100	11113
93	12/24/2021	95.5	8365	6709	5900	740200	10928
94	12/24/2021	96	8086	8470	4632	740100	11188
95	12/25/2021	97	8125	6633	6439	739500	11096
96	12/25/2021	95	8108	4038	5355	730610	11878

