

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

API 47 - 033 - 05984 County Harrison District Grant  
Quad West Milford Pad Name Antonio 1206 Field/Pool Name Lost Creek  
Farm name Antonio Well Number 1206 S-7H  
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 4334416.420 Easting 553374.343  
Landing Point of Curve Northing 4334270.0 Easting 553149.0  
Bottom Hole Northing 4329527.009 Easting 554890.641

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

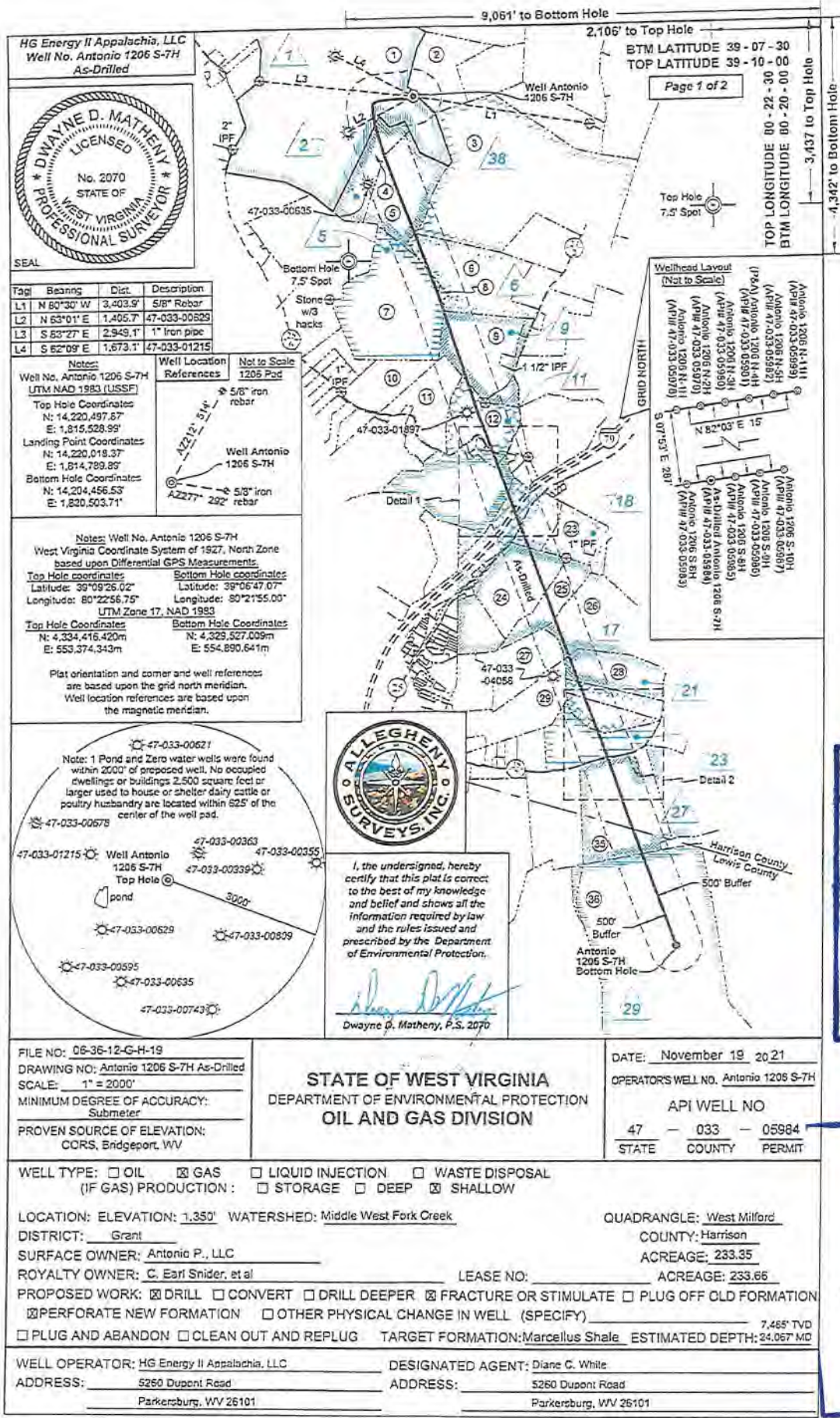
Mud Type(s) and Additive(s)  
Air/OBM  
KCL, Barite, Lime, CaCl, base oil, clay, sulfatone, safevert GLG, safevert WA

Date permit issued 3/06/2020 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 \_\_\_\_\_  
Coal depth(s) ft 60, 544, 850, 1102, 1106 Cavern(s) encountered (Y/N) depths \_\_\_\_\_  
Is coal being mined in area (Y/N) N

RECEIVED WV DEP  
21 271  
Reviewed by:  
Office of  
**05/10/2024**



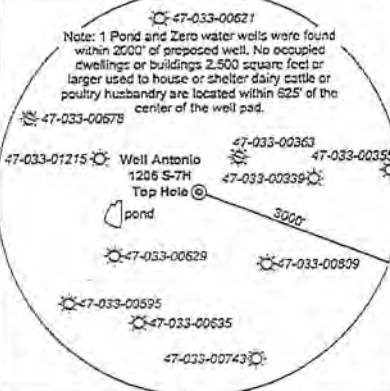
HG Energy II Appalachia, LLC  
Well No. Antonio 1206 S-7H  
As-Drilled



Tag	Bearing	Dist.	Description
L1	N 80°30' W	3,403.9'	5/8" Rebar
L2	N 63°01' E	1,406.7'	47-033-00629
L3	S 63°27' E	2,943.1'	1" Iron pipe
L4	S 62°09' E	1,673.1'	47-033-01215

**Notes:**  
Well No. Antonio 1206 S-7H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,220,497.67  
E: 1,815,528.99  
Landing Point Coordinates  
N: 14,220,018.37  
E: 1,814,789.89  
Bottom Hole Coordinates  
N: 14,204,456.53  
E: 1,820,503.71

**Notes:** Well No. Antonio 1206 S-7H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates  
Latitude: 39°09'26.02"  
Longitude: 80°22'56.75"  
UTM Zone 17, NAD 1983  
Bottom Hole coordinates  
Latitude: 39°06'47.07"  
Longitude: 80°21'55.00"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates  
N: 4,334,416.420m  
E: 553,374.343m  
Bottom Hole Coordinates  
N: 4,329,527.009m  
E: 554,890.641m  
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

**Wellhead Layout (Not to Scale)**

Antonio 1206 S-1011 (API# 47-033-05989)	Antonio 1206 S-1014 (API# 47-033-05987)	Antonio 1206 S-1017 (API# 47-033-05986)	Antonio 1206 S-1018 (API# 47-033-05985)
Antonio 1206 S-1019 (API# 47-033-05984)	Antonio 1206 S-1020 (API# 47-033-05983)	Antonio 1206 S-1021 (API# 47-033-05982)	Antonio 1206 S-1022 (API# 47-033-05981)
Antonio 1206 S-1023 (API# 47-033-05980)	Antonio 1206 S-1024 (API# 47-033-05979)	Antonio 1206 S-1025 (API# 47-033-05978)	Antonio 1206 S-1026 (API# 47-033-05977)
Antonio 1206 S-1027 (API# 47-033-05976)	Antonio 1206 S-1028 (API# 47-033-05975)	Antonio 1206 S-1029 (API# 47-033-05974)	Antonio 1206 S-1030 (API# 47-033-05973)

FILE NO: 06-36-12-G-H-19  
DRAWING NO: Antonio 1206 S-7H 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 19, 2021  
OPERATOR'S WELL NO. Antonio 1206 S-7H  
API WELL NO  
47 - 033 - 05984  
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  
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) 7,465' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 34,067' 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



JUN 27 2023

WR-35  
Rev. 8/23/13

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

API 47-033-05984 County Harrison District Grant Union  
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Farm name Antonio Well Number 1206 S7H  
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Landing Point of Curve Northing 14220018.37 Easting 1814789.89  
Bottom Hole Northing 14204456.53 Easting 1820503.71

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Is coal being mined in area (Y/N) N



Reviewed by:  
*Timothy Royal*  
**05/10/2024**

WR-35  
Rev. 8/23/13

API 47-033 - 05984 Farm name Antonio Well number 1206 S7H

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"	1144	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"	2994	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5	5.5	24067	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	2094	15.6	1.18	2471	Surface	8
Coal							
Intermediate 1	Class A	1631/531	16.0/16.4	1.16/1.12	1892/595	Surface	24
Intermediate 2	Class A	1067	15.6	1.19	1270	Surface	8
Intermediate 3							
Production	Class A	569/607/3397	13.5/13.5/14.8	1.82/1.67/1.34	1036/1014/4552	Surface	8
Tubing							

Drillers TD (ft) <sup>24067</sup> \_\_\_\_\_ Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) <sup>6485</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 \_\_\_\_\_

05/10/2024

API 47- 033 - 05984 Farm name Antonio Well number 1206 S7H

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					

Please insert additional pages as applicable.

05/10/2024

**HG Energy II Appalachia LLC**  
**Antonio 1206 S-7H**  
**Perforation Record**

Stage #	Perforation Date	Perforation from Depth	Perforation to Depth	Number of Perforations	Formation
Sleeve/1	10/14/2021	23983	23960	2	Marcellus
2	10/14/2021	23926	23758	28	Marcellus
3	10/15/2021	23730	23562	28	Marcellus
4	10/15/2021	23534	23366	28	Marcellus
5	10/16/2021	23338	23170	28	Marcellus
6	10/16/2021	23142	22974	28	Marcellus
7	10/16/2021	22946	22778	28	Marcellus
8	10/17/2021	22750	22582	28	Marcellus
9	10/17/2021	22554	22386	28	Marcellus
10	10/17/2021	22358	22190	28	Marcellus
11	10/17/2021	22162	21994	28	Marcellus
12	10/18/2021	21966	21798	28	Marcellus
13	10/18/2021	21770	21602	28	Marcellus
14	10/18/2021	21574	21406	28	Marcellus
15	10/19/2021	21378	21210	28	Marcellus
16	10/19/2021	21182	21014	28	Marcellus
17	10/19/2021	20986	20818	28	Marcellus
18	10/19/2021	20790	20622	28	Marcellus
19	10/20/2021	20594	20426	28	Marcellus
20	10/20/2021	20398	20230	28	Marcellus
21	10/21/2021	20202	20034	28	Marcellus
22	10/21/2021	20006	19838	28	Marcellus
23	10/21/2021	19810	19642	28	Marcellus
24	10/22/2021	19614	19446	28	Marcellus
25	10/22/2021	19418	19250	28	Marcellus
26	10/23/2021	19222	19054	28	Marcellus
27	10/23/2021	19026	18858	28	Marcellus
28	10/23/2021	18830	18662	28	Marcellus
29	10/24/2021	18634	18466	28	Marcellus
30	10/24/2021	18438	18270	28	Marcellus
31	10/24/2021	18242	18074	28	Marcellus
32	10/25/2021	18046	17878	28	Marcellus
33	10/25/2021	17850	17682	28	Marcellus
34A	10/26/2021	17654	17486	28	Marcellus
34B	10/26/2021	17654	17455	56	Marcellus
35	10/26/2021	17423	17273	28	Marcellus
36	10/26/2021	17245	17095	28	Marcellus
37	10/27/2021	17066	16898	28	Marcellus
38	10/27/2021	16870	16702	28	Marcellus
39	10/27/2021	16674	16506	28	Marcellus
40	10/28/2021	16478	16310	28	Marcellus
41	10/28/2021	16282	16114	28	Marcellus
42	10/28/2021	16086	15918	28	Marcellus
43	10/29/2021	15890	15722	28	Marcellus
44	10/29/2021	15694	15526	28	Marcellus
45	10/29/2021	15498	15330	28	Marcellus
46	10/30/2021	15302	15134	28	Marcellus
47	10/30/2021	15106	14938	28	Marcellus
48	10/30/2021	14910	14742	28	Marcellus
49	10/31/2021	14714	14546	28	Marcellus
50	10/31/2021	14518	14350	28	Marcellus
51	11/1/2021	14322	14154	28	Marcellus
52	11/1/2021	14126	13958	28	Marcellus

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53	11/1/2021	13930	13762	28	Marcellus
54	11/2/2021	13734	13566	28	Marcellus
55	11/2/2021	13538	13370	28	Marcellus
56	11/2/2021	13342	13174	28	Marcellus
57	11/2/2021	13146	12978	28	Marcellus
58	11/3/2021	12950	12782	28	Marcellus
59	11/3/2021	12754	12586	28	Marcellus
60	11/3/2021	12559	12391	28	Marcellus
61	11/4/2021	12365	12197	28	Marcellus
62	11/4/2021	12171	12003	28	Marcellus
63	11/4/2021	11977	11809	28	Marcellus
64	11/5/2021	11783	11615	28	Marcellus
65	11/5/2021	11589	11421	28	Marcellus
66	11/6/2021	11395	11227	28	Marcellus
67	11/6/2021	11201	11033	28	Marcellus
68	11/6/2021	11007	10839	28	Marcellus
69	11/7/2021	10813	10645	28	Marcellus
70	11/7/2021	10619	10451	28	Marcellus
71	11/7/2021	10425	10257	28	Marcellus
72	11/7/2021	10231	10063	28	Marcellus
73	11/8/2021	10037	9869	28	Marcellus
74	11/8/2021	9843	9675	28	Marcellus
75	11/8/2021	9649	9481	28	Marcellus
76	11/8/2021	9455	9287	28	Marcellus
77	11/9/2021	9261	9093	28	Marcellus
78	11/9/2021	9067	8899	28	Marcellus
79	11/10/2021	8873	8705	28	Marcellus
80	11/10/2021	8679	8511	28	Marcellus
81	11/10/2021	8485	8317	28	Marcellus
82	11/10/2021	8291	8123	28	Marcellus
83	11/11/2021	8097	7929	28	Marcellus
84	11/11/2021	7903	7735	28	Marcellus
85	11/11/2021	7709	7541	28	Marcellus

05/10/2024

**HG Energy II Appalachia, LLC****Antonio 1206 S-7H****Stimulation Record**

Stage #	Date	Average Pump Rate (BPM)	Average Treatment Press (PSI)	Maximum Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve/1	10/14/2021	66.8	8992	9254	4110	270070	7,868
2	10/14/2021	83.0	10,389	7,921	4,775	681402	14,926
3	10/15/2021	81.5	10,100	6,258	4,399	703360	14,723
4	10/15/2021	82.0	10,464	7,532	3,921	704420	12,741
5	10/16/2021	80.0	10,071	7,147	5,643	702500	12,492
6	10/16/2021	84.8	10,306	6,687	6,477	709870	11,913
7	10/16/2021	83.0	10,259	7,248	5,470	705440	11,860
8	10/17/2021	83.0	10,398	7,474	5,350	412500	8,055
9	10/17/2021	86.4	10,354	6,222	5,488	705800	9,907
10	10/17/2021	82.8	10,312	6,334	5,132	655200	9,703
11	10/17/2021	85.3	10,298	6,917	6,324	704900	9,905
12	10/18/2021	79.8	10,190	7,092	6,145	705520	9,861
13	10/18/2021	82.5	10,342	6,017	6,167	698090	12,349
14	10/18/2021	83.2	10,251	6,143	5,971	693790	9,879
15	10/19/2021	83.2	9,958	6,502	6,408	705500	12,248
16	10/19/2021	83.7	10,293	6,242	5,370	699100	12,075
17	10/19/2021	83.5	10,333	6,250	6,340	705590	12,151
18	10/19/2021	76.9	10,141	7,172	5,546	633530	12,115
19	10/20/2021	82.2	10,316	7,059	5,301	706120	11,984
20	10/20/2021	82.8	9,938	6,851	5,652	695020	11,584
21	10/21/2021	82.5	9,831	6,793	5,662	662400	11,952
22	10/21/2021	72.2	10,340	7,241	4,907	706150	13,832
23	10/21/2021	86.4	10,055	7,249	5,403	704890	9,941
24	10/22/2021	86.5	9,874	7,112	5,651	705500	9,900
25	10/22/2021	80.7	9,683	7,163	5,773	706620	14,167
26	10/23/2021	86.6	9,837	6,825	5,329	705980	11,846
27	10/23/2021	87.7	10,279	6,987	4,859	705730	9,851
28	10/23/2021	86.6	10,190	6,954	5,451	706680	10,245
29	10/24/2021	87.3	9,741	7,119	5,805	663160	9,672
30	10/24/2021	94.9	10,088	6,950	5,802	705660	9,927
31	10/24/2021	96.8	10,155	7,559	5,599	704740	10,306
32	10/25/2021	92.0	9,425	5,590	5,660	705200	9,766
33	10/25/2021	94.0	10,177	6,978	6,177	705900	9,747
34A	10/26/2021	39.0	10,392	7,616		650	2,838
34B	10/26/2021	84.0	10,022	N/A	5,776	505500	8,453
35	10/26/2021	93.9	10,182	7,584	5,935	712760	10,052
36	10/26/2021	91.7	10,047	5,842	5,636	708460	11,903
37	10/27/2021	101.0	10,153	7,329	6,156	714300	9,719
38	10/27/2021	102.0	10,483	7,531	5,999	706300	9,708
39	10/27/2021	95.8	9,885	5,858	5,813	705940	9,981
40	10/28/2021	94.0	10,265	6,457	4,824	706100	12,008
41	10/28/2021	96.0	10,375	8,010	5,676	706500	9,696
42	10/28/2021	100.9	10,093	6,372	5,689	707490	9,976
43	10/29/2021	98.0	10,120	6,225	6,051	685230	9,881
44	10/29/2021	99.0	10,159	5,254	5,554	705900	9,770
45	10/29/2021	99.7	10,314	6,294	5,990	623230	9,433
46	10/30/2021	94.2	10,090	6,114	5,393	679560	9,764
47	10/30/2021	97.0	9,811	6,243	5,634	604700	9,115
48	10/30/2021	78.0	9,704	7,289	5,672	331200	11,482
49	10/31/2021	80.0	9,416	7,136	5,160	705000	10,627
50	10/31/2021	87.0	8,941	6,323	5,556	714370	11,152
51	11/1/2021	97.1	9,749	5,905	5,761	710290	9,608
52	11/1/2021	87.0	9,209	7,296	5,886	682900	9,570
53	11/1/2021	97.1	9,270	6,877	5,672	705710	9,436



54	11/2/2021	85.7	9,099	6,609	5,174	707940	11,090
55	11/2/2021	99.0	9,858	6,478	5,760	697100	9,668
56	11/2/2021	101.2	9,485	6,659	6,236	674700	9,516
57	11/2/2021	106.0	9,930	6,472	5,245	696990	11,422
58	11/3/2021	107.0	9,737	6,265	6,811	695800	9,622
59	11/3/2021	106.0	9,812	6,417	5,722	691800	9,630
60	11/3/2021	92.1	9,176	5,523	5,281	688860	9,902
61	11/4/2021	101.0	9,756	5,790	5,235	691200	10,563
62	11/4/2021	102.0	9,295	6,658	6,141	691200	10,828
63	11/4/2021	103.0	9,216	6,900	7,108	693010	9,864
64	11/5/2021	94.0	9,109	7,000	5,744	682600	9,614
65	11/5/2021	106.2	10,053	6,139	4,954	612060	9,137
66	11/6/2021	103.0	9,551	6,340	5,618	690200	10,914
67	11/6/2021	106.0	9,985	6,477	5,442	692100	11,486
68	11/6/2021	104.0	9,898	6,893	5,545	694750	10,725
69	11/7/2021	104.8	9,818	6,230	5,128	689560	9,431
70	11/7/2021	106.0	9,155	5,793	6,121	690100	10,222
71	11/7/2021	96.0	9,266	7,200	4,567	623600	11,108
72	11/7/2021	103.9	9,724	5,717	5,040	691660	9,463
73	11/8/2021	104.1	9,335	6,319	5,656	702180	10,681
74	11/8/2021	109.2	9,663	6,950	5,176	691700	9,528
75	11/8/2021	100.0	9,310	6,932	5,856	690080	10,952
76	11/8/2021	107.3	9,146	6,417	4,610	695480	9,459
77	11/9/2021	106.0	9,346	6,300	5,356	698900	9,683
78	11/9/2021	106.0	9,655	7,800	5,605	692000	9,802
79	11/10/2021	104.6	9,265	5,708	5,632	690000	9,432
80	11/10/2021	107.0	9,514	6,352	5,805	690000	9,603
81	11/10/2021	109.0	9,311	6,670	6,259	692000	9,526
82	11/10/2021	109.0	9,387	6,800	5,387	689400	9,542
83	11/11/2021	109.6	9,108	5,774	5,002	690400	9,415
84	11/11/2021	108.5	9,070	5,961	4,840	689000	10,675
85	11/11/2021	109.0	8,808	6,031	4,602	690000	9,710

05/10/2024

API 47- 033 - 05984 Farm name Antonio Well number 1206 S7H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>7209-7227</u> TVD	<u>7465-24067</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump

SHUT-IN PRESSURE Surface 1309 psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST 1078 hrs

OPEN FLOW Gas 23136 mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water 744 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, H<sub>2</sub>S, 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>	
	<u>0</u>		<u>0</u>		
		<u>See Attached</u>			

Please insert additional pages as applicable.

Drilling Contractor Precision Drilling  
Address 2640 Reach road City Williamsport State PA Zip 17701

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 19 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 3/23/2023

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

05/10/2024

**HG Energy II Appalachia, LLC**  
**Antonio 1206 S-7H**  
**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 Sar	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	2088	2088
50' Sand	2120	2120	2114	2182
30 foot Sar	2207	2207	2226	2226
Gordon Str	2257	2257	2298	2298
Gordon	2298	2298	2414	2414
4th Sand	2411	2411	2459	2459
4th sand "A	2472	2472	2491	2491
5th Sand	2541	2541	2554	2554
Upper Spee	3119	3119	3152	3151
Lower Spee	3229	3229	3251	3250
Benson	4554	4528	4575	4548
Rhinstree	5840	5772	6683	6589
Cashaqua	6683	6589	6897	6792
Middlesex	6897	6792	7005	6894
West River	7005	6894	7190	7054
Burket	7190	7054	2112	7071
Tully	2112	7071	7323	7150
Hamilton	7323	7150	7465	7227
Marcellus	7465	7227	24067	7209

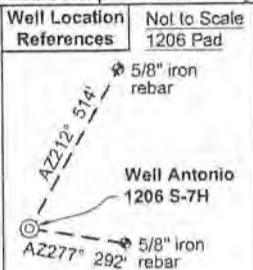


HG Energy II Appalachia, LLC  
Well No. Antonio 1206 S-7H  
As-Drilled



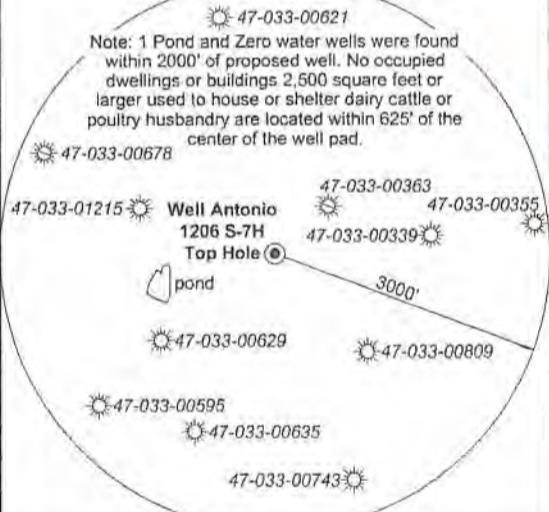
Tag	Bearing	Dist.	Description
L1	N 80°30' W	3,403.9'	5/8" Rebar
L2	N 63°01' E	1,405.7'	47-033-00629
L3	S 83°27' E	2,949.1'	1" Iron pipe
L4	S 62°09' E	1,673.1'	47-033-01215

Notes:  
Well No. Antonio 1206 S-7H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,220,497.87'  
E: 1,815,528.99'  
Landing Point Coordinates  
N: 14,220,018.37'  
E: 1,814,789.89'  
Bottom Hole Coordinates  
N: 14,204,456.53'  
E: 1,820,503.71'



Notes: Well No. Antonio 1206 S-7H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
Top Hole coordinates  
Latitude: 39°09'26.02"  
Longitude: 80°22'56.75"  
UTM Zone 17, NAD 1983  
Bottom Hole coordinates  
Latitude: 39°06'47.07"  
Longitude: 80°21'55.00"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates  
N: 4,334,416.420m  
E: 553,374.343m  
Bottom Hole Coordinates  
N: 4,329,527.009m  
E: 554,890.641m

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

9,061' to Bottom Hole

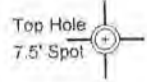
2,106' to Top Hole

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

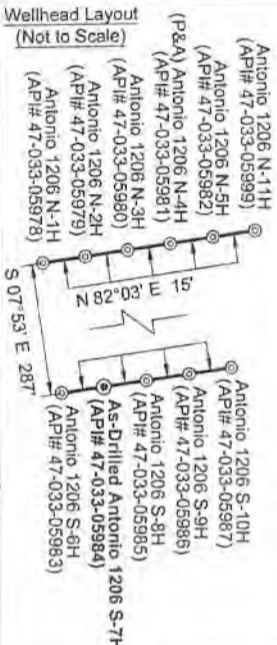
Page 1 of 2

TOP LONGITUDE 80 - 22 - 30  
BTM LONGITUDE 80 - 20 - 00

3,437' to Top Hole  
4,342' to Bottom Hole



Wellhead Layout  
(Not to Scale)



GRID NORTH

S 07°53' E 287'

N 82°03' E 15'

S 07°53' E 287'

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

FILE NO: 06-36-12-G-H-19  
DRAWING NO: Antonio 1206 S-7H As-Drilled  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY:  
Submeter  
PROVEN SOURCE OF ELEVATION:  
CORS, Bridgeport, WV

DATE: November 19 2021  
OPERATOR'S WELL NO. Antonio 1206 S-7H  
API WELL NO  
47 - 033 - 05984  
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 Milford

DISTRICT: Grant

COUNTY: Harrison

SURFACE OWNER: Antonio P., LLC

ACREAGE: 233.66

ROYALTY OWNER: C. Earl Snider, et al

LEASE NO:

ACREAGE: 233.66

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

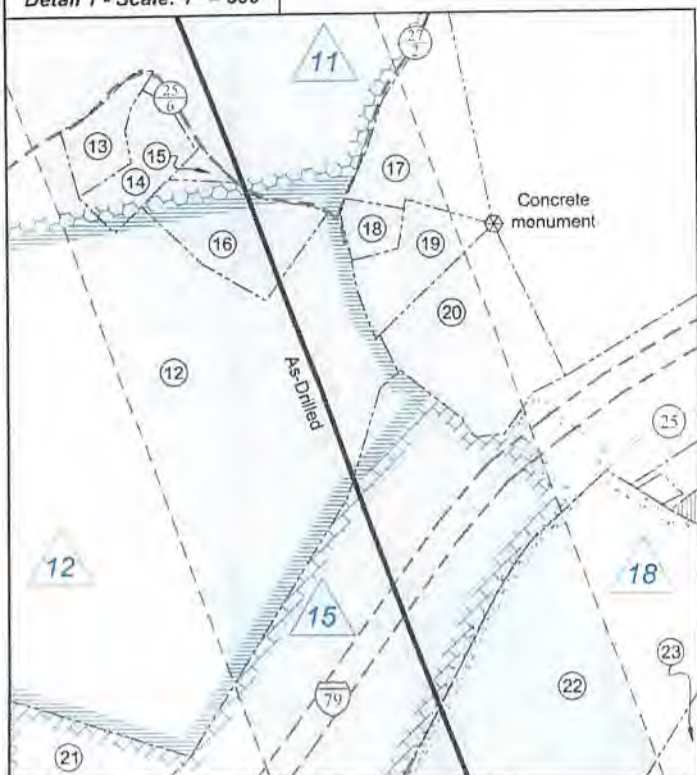
PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,465' TVD  
24,067' MD

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

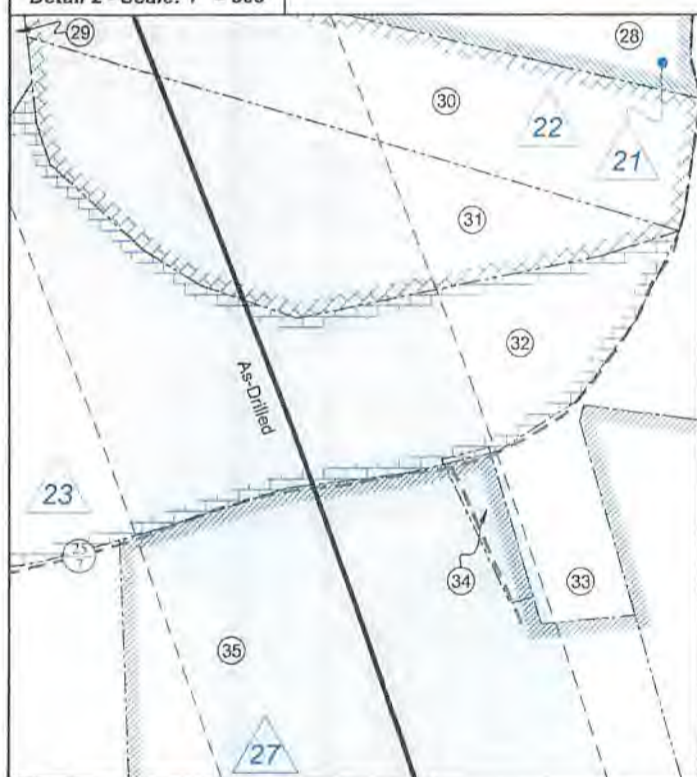
DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101

05/10/2024

Detail 1 - Scale: 1" = 500'



Detail 2 - Scale: 1" = 500'



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
2	Creed W. Snider, et al
5	Hazel Kieffer, et al
6	Nora A. Davisson, et al
9	Nora A. Davisson, et al
11	W.M. West
12	Ode Bright, et al
15	Iden McWhorter, et ux
17	Iden McWhorter, et al
18	Mabel Ann West
21	Cora B. Reed, et al
22	Emma Waggoner, et al
23	Stanley Yochym, et al
27	H.A. Boylen, et al
29	Fleming Howell, et al
38	Lloyd Stout, et al
50	B.P. Schrader, et ux

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	446 / 3	Antonio P., LLC	1503 / 291	200.00
4	446 / 1	Antonio P., LLC	1503 / 291	24.10
5	446 / 2	Antonio P., LLC	1503 / 291	43.89
6	446 / 19	Mary Richards	W118 / 904	52.72
7	446 / 18	William L. Jenkins	1155 / 581	84.41
8	446 / 18.1	Mary Richards	W118 / 904	0.09
9	446 / 33	Mary Richards	W118 / 904	46.23
10	446 / 31.1	Jeri Booher	1421 / 1073	22.61
11	446 / 39	Charles Nay	W184 / 59	30.11
12	446 / 40	W. Joe & Hannah M. Sutton	1192 / 181	82.69
13	446 / 40.3	John Henry McWhorter	1422 / 1120	0.89
14	446 / 40.2	John Henry McWhorter	1422 / 1120	1.20
15	446 / 40.4	John Henry McWhorter	1422 / 1120	0.20
16	446 / 40.5	Leroy J. Newman	1422 / 137	2.10
17	446 / 49	Slate Property LLC	1596 / 1122	2.97
18	446 / 49.1	Bernard D. Bennett II	1242 / 420	0.64
19	446 / 49.2	Premier Construction Group LLC	1556 / 303	1.39
20	446 / 42	Charles & Veronica Corssan	1381 / 333	3.53
21	466 / 13.1	Robert & Ruth Highland	1160 / 641	2.55
22	466 / 15	AL-N-EL Farms, Inc.	1623 / 1057	9.20
23	466 / 16	AL-N-EL Farms, Inc.	1623 / 1057	22.77
24	466 / 14.1	AL-N-EL Farms, Inc.	1623 / 1057	37.33
25	466 / 14	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	21.16
26	466 / 35	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	60.00
27	466 / 32	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	29.57
28	466 / 34	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	27.46
29	466 / 52	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	46.40
30	466 / 33	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	13.75
31	466 / 54	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	11.04
32	466 / 53	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	55.00
33	466 / 69	Edward Clark	1519 / 282	3.00
34	466 / 68.1	Angelica A. Dix	1285 / 386	1.00
35	466 / 68	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	59.25

Lewis County - Hackers Creek District				
No.	TM / Par	Owner	Bk / Pg	Ac.
36	9C / 35	S. Thomas Bond, et ux	577 / 328	282.17

FILE NO: 06-36-12-G-H-19  
DRAWING NO: Antonio 1206 S-7H 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 19 2021  
OPERATOR'S WELL NO. Antonio 1206 S-7H  
API WELL NO  
47 - 033 - 05984  
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

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

ACREAGE: 233.66

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

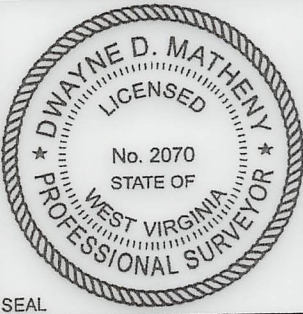
PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,465' TVD 24,067' MD

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

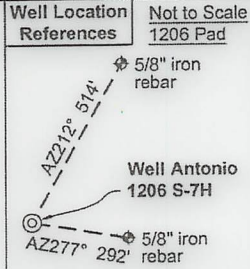
05/10/2024

HG Energy II Appalachia, LLC  
Well No. Antonio 1206 S-7H  
As-Drilled



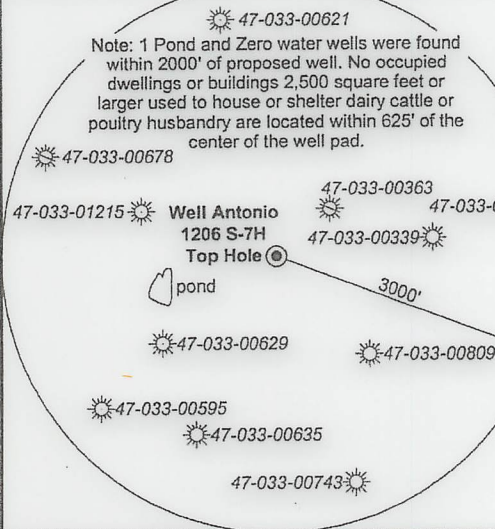
Tag	Bearing	Dist.	Description
L1	N 80°30' W	3,403.9'	5/8" Rebar
L2	N 63°01' E	1,405.7'	47-033-00629
L3	S 83°27' E	2,949.1'	1" Iron pipe
L4	S 62°09' E	1,673.1'	47-033-01215

Notes:  
Well No. Antonio 1206 S-7H  
UTM NAD 1983 (USSF)  
Top Hole Coordinates  
N: 14,220,497.87'  
E: 1,815,528.99'  
Landing Point Coordinates  
N: 14,220,018.37'  
E: 1,814,789.89'  
Bottom Hole Coordinates  
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Notes: Well No. Antonio 1206 S-7H  
West Virginia Coordinate System of 1927, North Zone  
based upon Differential GPS Measurements.  
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Bottom Hole coordinates Latitude: 39°06'47.07" Longitude: 80°21'55.00"  
UTM Zone 17, NAD 1983  
Top Hole Coordinates N: 4,334,416.420m E: 553,374.343m  
Bottom Hole Coordinates N: 4,329,527.009m E: 554,890.641m

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

FILE NO: 06-36-12-G-H-19  
DRAWING NO: Antonio 1206 S-7H As-Drilled  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

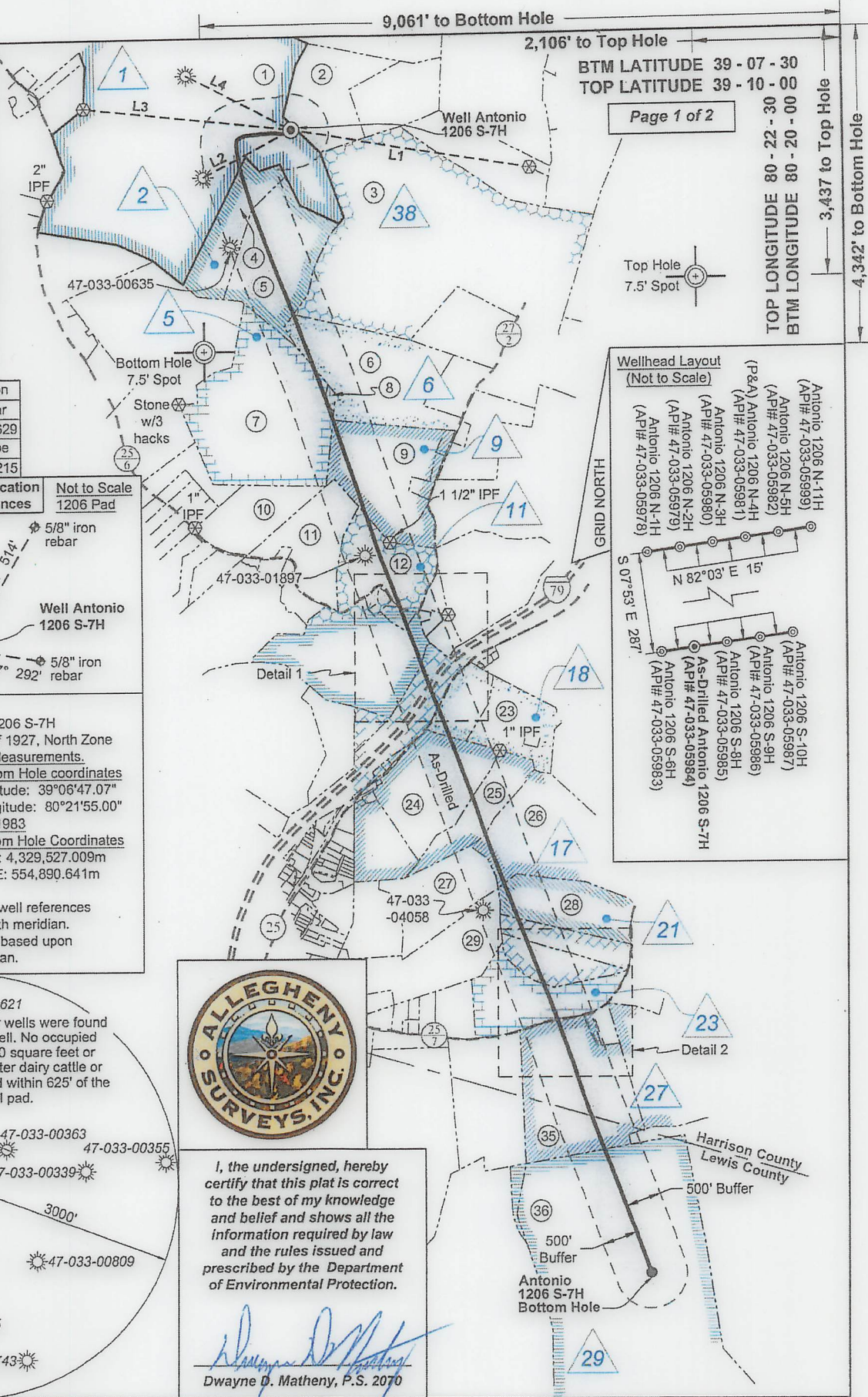
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE: November 19 2021  
OPERATOR'S WELL NO. Antonio 1206 S-7H  
API WELL NO  
47 - 033 - 05984  
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  
SURFACE OWNER: Antonio P., LLC  
ROYALTY OWNER: C. Earl Snider, et al LEASE NO: ACREAGE: 233.66  
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: 24,067' MD

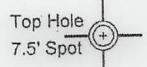
WELL OPERATOR: HG Energy II Appalachia, LLC ADDRESS: 5260 Dupont Road Parkersburg, WV 26101  
DESIGNATED AGENT: Diane C. White ADDRESS: 5260 Dupont Road Parkersburg, WV 26101



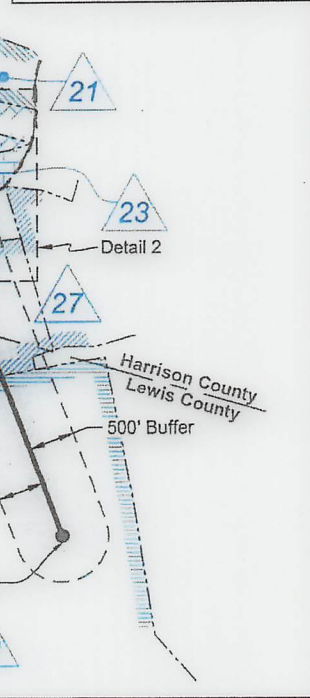
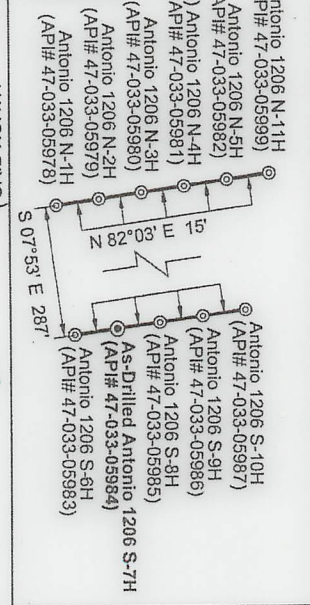
Wellhead Layout (Not to Scale)

Antonio 1206 N-11H (API# 47-033-05999)	Antonio 1206 S-10H (API# 47-033-05987)
Antonio 1206 N-5H (API# 47-033-05982)	Antonio 1206 S-9H (API# 47-033-05986)
(P&A) Antonio 1206 N-4H (API# 47-033-05981)	Antonio 1206 S-8H (API# 47-033-05985)
Antonio 1206 N-3H (API# 47-033-05979)	As-Drilled Antonio 1206 S-7H (API# 47-033-05984)
Antonio 1206 N-2H (API# 47-033-05980)	Antonio 1206 S-6H (API# 47-033-05983)
Antonio 1206 N-1H (API# 47-033-05978)	

9,061' to Bottom Hole  
2,106' to Top Hole  
BTM LATITUDE 39 - 07 - 30  
TOP LATITUDE 39 - 10 - 00  
TOP LONGITUDE 80 - 22 - 30  
BTM LONGITUDE 80 - 20 - 00  
3,437' to Top Hole  
4,342' to Bottom Hole



Wellhead Layout (Not to Scale)



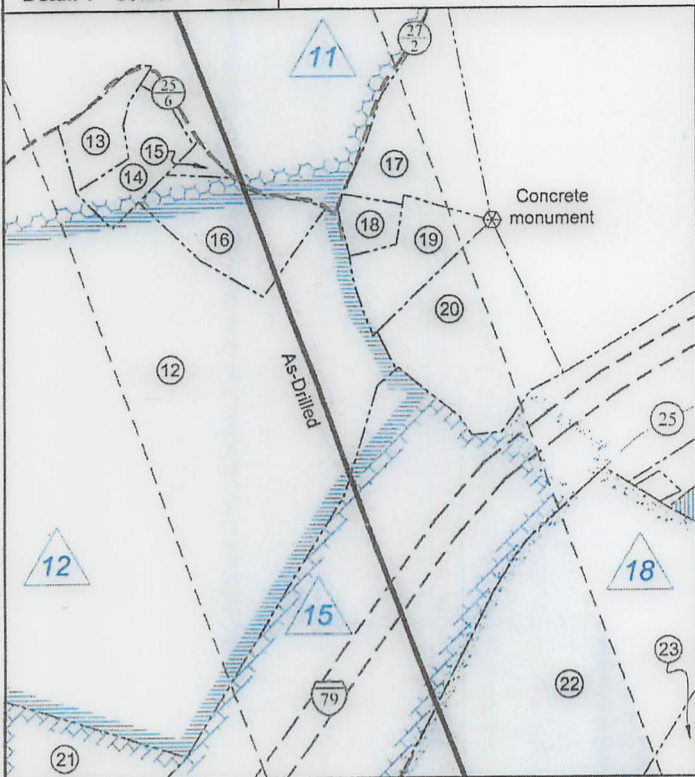
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OPERATOR'S WELL NO. Antonio 1206 S-7H  
API WELL NO  
47 - 033 - 05984  
STATE COUNTY PERMIT

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

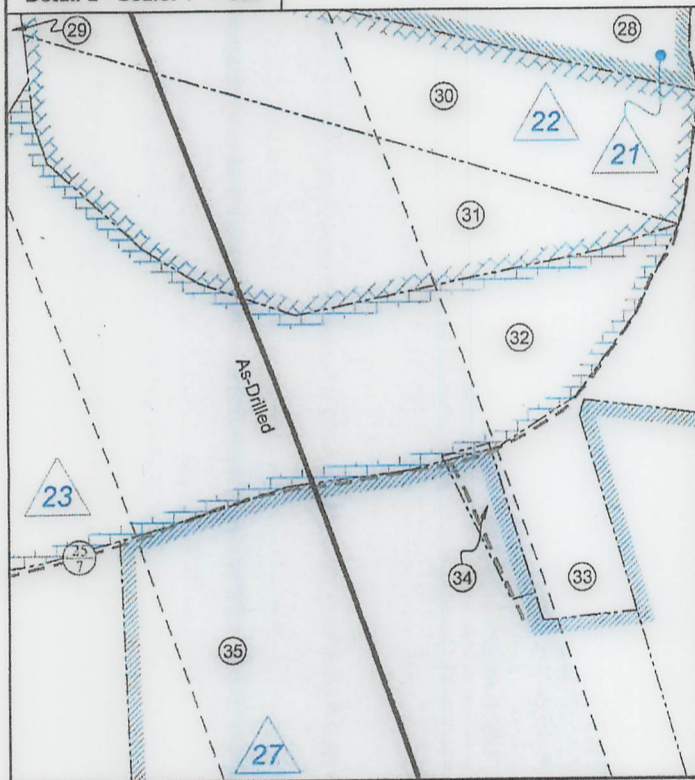
LOCATION: ELEVATION: 1,350' WATERSHED: Middle West Fork Creek  
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SURFACE OWNER: Antonio P., LLC  
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 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY)  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 24,067' 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

Detail 1 - Scale: 1" = 500'



Detail 2 - Scale: 1" = 500'



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
2	Creed W. Snider, et al
5	Hazel Kieffer, et al
6	Nora A. Davisson, et al
9	Nora A. Davisson, et al
11	W.M. West
12	Ode Bright, et al
15	Iden McWhorter, et ux
17	Iden McWhorter, et al
18	Mabel Ann West
21	Cora B. Reed, et al
22	Emma Waggoner, et al
23	Stanley Yochym, et al
27	H.A. Boylen, et al
29	Fleming Howell, et al
38	Lloyd Stout, et al
50	B.P. Schrader, et ux

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	446 / 3	Antonio P., LLC	1503 / 291	200.00
4	446 / 1	Antonio P., LLC	1503 / 291	24.10
5	446 / 2	Antonio P., LLC	1503 / 291	43.89
6	446 / 19	Mary Richards	W118 / 904	52.72
7	446 / 18	William L. Jenkins	1155 / 581	84.41
8	446 / 18.1	Mary Richards	W118 / 904	0.09
9	446 / 33	Mary Richards	W118 / 904	46.23
10	446 / 31.1	Jeri Booher	1421 / 1073	22.61
11	446 / 39	Charles Nay	W184 / 59	30.11
12	446 / 40	W. Joe & Hannah M. Sutton	1192 / 181	82.69
13	446 / 40.3	John Henry McWhorter	1422 / 1120	0.89
14	446 / 40.2	John Henry McWhorter	1422 / 1120	1.20
15	446 / 40.4	John Henry McWhorter	1422 / 1120	0.20
16	446 / 40.5	Leroy J. Newman	1422 / 137	2.10
17	446 / 49	Slate Property LLC	1596 / 1122	2.97
18	446 / 49.1	Bernard D. Bennett II	1242 / 420	0.64
19	446 / 49.2	Premier Construction Group LLC	1556 / 303	1.39
20	446 / 42	Charles & Veronica Corssan	1381 / 333	3.53
21	466 / 13.1	Robert & Ruth Highland	1160 / 641	2.55
22	466 / 15	AL-N-EL Farms, Inc.	1623 / 1057	9.20
23	466 / 16	AL-N-EL Farms, Inc.	1623 / 1057	22.77
24	466 / 14.1	AL-N-EL Farms, Inc.	1623 / 1057	37.33
25	466 / 14	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	21.16
26	466 / 35	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	60.00
27	466 / 32	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	29.57
28	466 / 34	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	27.46
29	466 / 52	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	46.40
30	466 / 33	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	13.75
31	466 / 54	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	11.04
32	466 / 53	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	55.00
33	466 / 69	Edward Clark	1519 / 282	3.00
34	466 / 68.1	Angelica A. Dix	1285 / 386	1.00
35	466 / 68	Frank N Wine, Jr. & Frank N. Wine, III	1596 / 809	59.25

Lewis County - Hackers Creek District				
No.	TM / Par	Owner	Bk / Pg	Ac.
36	9C / 35	S. Thomas Bond, et ux	577 / 328	282.17

FILE NO: 06-36-12-G-H-19  
DRAWING NO: Antonio 1206 S-7H 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 19 2021  
OPERATOR'S WELL NO. Antonio 1206 S-7H  
API WELL NO  
47 - 033 - 05984  
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

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

ACREAGE: 233.66

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: 7,465' TVD 24,067' 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