

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

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WV Department of  
Environmental Protection

API 47 - 041 - 05716 County Lewis District Freemans Creek  
Quad Weston Pad Name Flesher 1212 Field/Pool Name Kennedy  
Farm name Flesher Well Number 1212 S7H  
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 14206086.55 Easting 1785751.82  
Landing Point of Curve Northing 14205876.83 Easting 1785815.76  
Bottom Hole Northing 14191306.47 Easting 1790943.65

Elevation (ft) 1332 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 FLG, safevert WA

Date permit issued 01/29/2021 Date drilling commenced 3/4/2021 Date drilling ceased 11/2/2021  
Date completion activities began 12/15/2021 Date completion activities ceased 5/23/2022  
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 283 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 303, 473, 815, 910, 1065 Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

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

**APPROVED**

*Kenneth Reynolds* 3-14-24

03/22/2024

API 47-041 - 05716 Farm name Flesher Well number 1212 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"	100'	New	154.5 lbs/ft		N
Surface	26"	20"	1084	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	2083	New	68 lbs/ft		Yes
Intermediate 2	12.25"	9.625"	2906	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5	5.5	22486	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	1984	15.6	1.18	2341	surface	8
Coal							
Intermediate 1	Class A	1706/612	16.0/16.4	1.16/1.10	1979/673	surface	24
Intermediate 2	Class A	1037	15.6	1.19	1234	surface	8
Intermediate 3							
Production	Class A	308/520/3273	13.5/13.5/14.8	1.83/1.67/1.34	564/868/4386	surface	8
Tubing							

Drillers TD (ft) <sup>22524</sup> \_\_\_\_\_ Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

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Kick off depth (ft) <sup>6017' MD</sup> \_\_\_\_\_

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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 \_\_\_\_\_

03/22/2024

API 47-041 - 05716

Farm name Flesher

Well number 1212 S7H

PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
			See Attached		

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Please insert additional pages as applicable.

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STIMULATION INFORMATION PER STAGE

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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.

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**HG Energy II Appalachia, LLC**  
**Fletcher 1212 S-7H**  
**Perforation Record**

WV Department of  
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Stage #	Date	Perf from Depth	Perf to Depth	Number of Perfs	Formation
Sleeve/1	3/10/2022	22430	22400	2	Marcellus
2	3/10/2022	22366	22198	32	Marcellus
3	3/11/2022	22170	22002	32	Marcellus
4	3/12/2022	21974	21806	32	Marcellus
5	3/13/2022	21778	21610	32	Marcellus
6	3/13/2022	21582	21414	32	Marcellus
7	3/14/2022	21386	21218	32	Marcellus
8	3/14/2022	21190	21022	32	Marcellus
9	3/15/2022	20994	20826	32	Marcellus
10	3/15/2022	20798	20630	32	Marcellus
11	3/15/2022	20602	20434	32	Marcellus
12	3/16/2022	20406	20238	32	Marcellus
13	3/16/2022	20210	20042	32	Marcellus
14	3/16/2022	20014	19846	32	Marcellus
15	3/17/2022	19818	19650	32	Marcellus
16	3/17/2022	19622	19454	32	Marcellus
17	3/18/2022	19426	19258	32	Marcellus
18	3/18/2022	19230	19062	32	Marcellus
19	3/19/2022	19034	18866	32	Marcellus
20	3/19/2022	18838	18670	32	Marcellus
21	3/19/2022	18642	18474	32	Marcellus
22	3/20/2022	18446	18278	32	Marcellus
23	3/20/2022	18250	18082	32	Marcellus
24	3/20/2022	18054	17886	32	Marcellus
25	3/21/2022	17858	17690	32	Marcellus
26	3/21/2022	17662	17494	32	Marcellus
27	3/21/2022	17466	17298	32	Marcellus
28	3/22/2022	17270	17102	32	Marcellus
29	3/22/2022	17074	16906	32	Marcellus
30	3/22/2022	16878	16710	32	Marcellus
31	3/23/2022	16682	16514	32	Marcellus
32	3/23/2022	16486	16318	32	Marcellus
33	3/23/2022	16290	16122	32	Marcellus
34	3/24/2022	16094	15926	32	Marcellus
35	3/24/2022	15898	15730	32	Marcellus
36	3/25/2022	15702	15534	32	Marcellus
37	3/25/2022	15506	15338	32	Marcellus
38	3/25/2022	15310	15142	32	Marcellus
39	3/26/2022	15114	14946	32	Marcellus
40	3/26/2022	14918	14750	32	Marcellus
41	3/26/2022	14722	14554	32	Marcellus
42	3/26/2022	14526	14358	32	Marcellus
43	3/27/2022	14330	14162	32	Marcellus
44	3/27/2022	14134	13966	32	Marcellus
45	3/27/2022	13938	13770	32	Marcellus
46	3/28/2022	13742	13574	32	Marcellus
47	3/28/2022	13546	13378	32	Marcellus
48	3/29/2022	13350	13182	32	Marcellus
49	3/29/2022	13154	12986	32	Marcellus
50	3/29/2022	12958	12790	32	Marcellus
51	3/30/2022	12762	12594	32	Marcellus
52	3/30/2022	12566	12398	32	Marcellus
53	3/30/2022	12370	12202	32	Marcellus
54	3/31/2022	12174	12006	32	Marcellus

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55	4/5/2022	11978	11810	32	Marcellus
56	4/5/2022	11782	11614	32	Marcellus
57	4/5/2022	11586	11418	32	Marcellus
58	4/6/2022	11390	11222	32	Marcellus
59	4/6/2022	11194	11026	32	Marcellus
60	4/8/2022	10998	10830	32	Marcellus
61	4/9/2022	10802	10634	32	Marcellus
62	4/9/2022	10606	10438	32	Marcellus
63	4/10/2022	10410	10242	32	Marcellus
64	4/10/2022	10214	10046	32	Marcellus
65	4/11/2022	10018	9850	32	Marcellus
66	4/11/2022	9822	9654	32	Marcellus
67	4/12/2022	9626	9458	32	Marcellus
68	4/12/2022	9430	9262	32	Marcellus
69A	4/13/2022	9234	9066	32	Marcellus
69B	4/13/2022	9234	9034	64	Marcellus
70	4/14/2022	9007	8854	32	Marcellus
71	4/14/2022	8827	9674	32	Marcellus
72	4/15/2022	8646	8478	32	Marcellus
73	4/15/2022	8450	8282	32	Marcellus
74	4/16/2022	8254	8086	32	Marcellus
75	4/16/2022	8058	890	32	Marcellus
76	4/17/2022	7863	7695	32	Marcellus
77	4/17/2022	7669	7501	32	Marcellus
78	4/18/2022	7475	7307	32	Marcellus
79	4/18/2022	7281	7137	28	Marcellus

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**HG Energy II Appalachia, LLC**  
**Fletcher 1212 S-7H**  
**Stimulation Record**

Stage #	Date	Ave pump rate (BPM)	Ave Treatment Press (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve/1	3/10/2022	61.0	10209	11910	5397	6500	3,490
2	3/10/2022	89.0	9,664	6,144	4,689	681520	14,326
3	3/11/2022	88.5	9,575	6,838	5,654	700000	14,164
4	3/12/2022	89.0	9,630	N/A	5,241	701900	14,512
5	3/13/2022	92.0	10,002	6,728	5,277	702500	12,788
6	3/13/2022	90.0	9,852	6,480	6,023	704100	11,887
7	3/14/2022	92.0	10,274	6,532	5,093	529340	9,995
8	3/14/2022	92.7	10,267	5,880	5,307	704120	11,637
9	3/15/2022	93.0	10,084	6,311	5,080	616467	9,064
10	3/15/2022	91.0	9,696	6,402	5,377	705000	9,696
11	3/15/2022	91.2	10,247	6,679	5,196	703600	9,805
12	3/16/2022	94.0	10,357	6,026	5,166	704500	9,754
13	3/16/2022	94.5	10,703	6,430	5,732	704100	9,841
14	3/16/2022	96.0	10,259	6,137	5,351	704120	10,066
15	3/17/2022	93.0	10,313	5,581	5,433	640000	9,503
16	3/17/2022	94.6	10,248	6,704	5,124	704800	9,781
17	3/18/2022	91.0	10,385	6,181	5,583	704430	9,696
18	3/18/2022	96.6	10,107	5,672	4,612	690330	11,148
19	3/19/2022	98.0	10,304	7,035	5,419	673328	10,696
20	3/19/2022	94.0	10,393	5,854	5,212	458220	9,258
21	3/19/2022	101.3	10,338	6,404	5,032	704520	11,091
22	3/20/2022	99.0	10,163	6,515	5,585	749080	9,675
23	3/20/2022	86.0	10,303	6,433	6,165	499000	8,910
24	3/20/2022	99.7	10,239	6,357	5,339	704760	9,672
25	3/21/2022	99.0	10,057	5,695	5,458	705400	9,768
26	3/21/2022	104.0	9,795	5,780	5,518	687260	9,464
27	3/21/2022	102.0	10,167	6,150	4,941	720040	10,969
28	3/22/2022	101.0	9,859	6,520	6,102	720020	9,998
29	3/22/2022	93.5	10,105	5,635	5,015	637000	10,573
30	3/22/2022	98.4	10,329	6,055	5,589	720060	9,721
31	3/23/2022	102.0	10,204	5,683	6,134	214000	5,867
32	3/23/2022	99.7	9,763	6,125	4,253	720040	11,680
33	3/23/2022	99.7	9,787	6,069	4,549	720000	9,764
34	3/24/2022	99.0	10,090	5,948	4,764	709960	12,120
35	3/24/2022	103.3	10,136	5,474	4,761	710000	10,759
36	3/25/2022	97.0	9,805	5,500	5,221	710100	9,461
37	3/25/2022	106.0	9,992	5,850	5,798	710200	9,584
38	3/25/2022	106.6	10,115	6,471	5,556	710000	9,581
39	3/26/2022	106.0	9,992	6,259	5,798	708800	11,209
40	3/26/2022	107.0	10,045	5,900	5,376	710000	9,670
41	3/26/2022	107.6	10,233	6,217	5,423	710000	9,594
42	3/26/2022	99.0	9,690	5,820	5,541	710000	10,711
43	3/27/2022	107.4	9,973	5,611	5,236	710000	9,811
44	3/27/2022	107.9	10,015	6,392	5,001	710000	9,601
45	3/27/2022	109.0	9,890	5,770	5,111	710000	9,588
46	3/28/2022	101.1	9,921	6,446	5,675	710000	10,510
47	3/28/2022	109.6	9,586	6,524	5,280	710000	9,642
48	3/29/2022	108.0	10,005	5,870	5,160	710000	10,769
49	3/29/2022	110.4	9,578	5,854	5,403	710000	9,537
50	3/29/2022	108.0	9,716	6,479	5,389	710000	9,530
51	3/30/2022	106.0	10,014	6,142	6,549	709500	9,460
52	3/30/2022	103.1	9,645	6,619	5,195	710000	9,635
53	3/30/2022	104.0	9,818	7,253	5,223	567700	9,790

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54	3/31/2022	106.0	9,521	6,236	6,084	709900	9,523
55	4/5/2022	107.0	9,718	6,603	5,780	710000	9,627
56	4/5/2022	107.0	9,631	6,533	5,280	710000	9,695
57	4/5/2022	106.0	9,876	6,454	5,149	710000	9,628
58	4/6/2022	105.0	9,854	6,712	5,814	708700	9,605
59	4/6/2022	103.0	9,660	6,484	5,220	697340	10,108
60	4/8/2022	105.0	9,854	6,123	6,716	708700	9,907
61	4/9/2022	107.0	9,501	6,004	6,231	704500	9,482
62	4/9/2022	107.0	9,167	5,864	5,662	710000	10,246
63	4/10/2022	105.0	8,360	6,401	5,777	631200	9,162
64	4/10/2022	109.0	9,190	6,315	6,356	710000	9,558
65	4/11/2022	109.0	9,162	6,432	7,662	704500	9,576
66	4/11/2022	105.0	9,304	6,508	4,447	710000	11,078
67	4/12/2022	103.0	8,606	6,320	4,970	683600	10,279
68	4/12/2022	95.0	9,956	6,319	5,764	388000	8,509
69A	4/13/2022	60.0	9,342	6,400	5,175	450	2,592
69B	4/13/2022	103.0	7,928	5,820	5,121	720000	9,729
70	4/14/2022	98.8	7,938	6,350	5,201	720400	9,419
71	4/14/2022	109.0	8,409	6,585	5,300	720000	9,640
72	4/15/2022	109.9	8,223	6,370	5,502	720920	9,499
73	4/15/2022	108.0	8,739	6,154	5,535	704000	9,438
74	4/16/2022	96.8	8,970	6,597	5,305	720310	9,733
75	4/16/2022	106.0	9,377	6,229	5,286	720000	9,793
76	4/17/2022	105.0	8,312	6,713	5,851	624580	10,624
77	4/17/2022	109.5	8,557	6,517	4,896	720150	9,634
78	4/18/2022	110.0	8,137	7,202	6,061	701000	9,456
79	4/18/2022	107.0	9,193	6,347	5,468	719900	9,576

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PRODUCING FORMATION(S)	DEPTHS	
	6843-6994 TVD	7062-22524 MD
Marcellus		

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Please insert additional pages as applicable.

GAS TEST  Build up  Drawdown  Open Flow OIL TEST  Flow  Pump  
 SHUT-IN PRESSURE Surface \_\_\_\_\_ psi Bottom Hole \_\_\_\_\_ psi DURATION OF TEST \_\_\_\_\_ hrs  
 OPEN FLOW Gas \_\_\_\_\_ mcfpd Oil \_\_\_\_\_ bpd NGL \_\_\_\_\_ bpd Water \_\_\_\_\_ bpd GAS MEASURED BY  
 Estimated  Orifice  Pilot

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

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 119 North City Black Lick State PA Zip 15716  
 Please insert additional pages as applicable.

Completed by Diane White Telephone 304-420-1119  
 Signature Diane White Title \_\_\_\_\_ Date 02/14/2024

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

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**HG Energy II Appalachia, LLC**

**Lithology Record  
Fletcher 1212 S-7H**

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Formation	Top MD	Top TVD	Base MD	Base TVD
Gas sand	655	655	856	856
1st salt sand	856	856	1028	1028
Coal	910	910	906	906
2nd salt sand	1030	1030	1123	1123
Deepest coal	1065	1065	1068	1068
3rd salt sand	1213	1213	1245	1245
Upper Maxton	1350	1350	1353	1353
Lower Maxton	1495	1495	1546	1546
Big Lime	1569	1569	1631	1631
Big Injun	1631	1631	1722	1722
Gantz (storage)	1910	1910	1966	1966
50' Sand	2018	2018	2027	2027
30' sand	2122	2121	2140	2139
Gordon Stray	2153	2152	2199	2198
Gordon/Forth Sand	2199	2198	2279	2278
5th Sand	2407	2406	2451	2449
Bayard	2474	2472	2404	2402
Warren	2787	2784	2803	2801
Speechley	3108	3105	3126	3123
Balltown	3310	3306	3382	3379
Bradford	3786	3782	3863	3859
Benson	4404	4400	4415	4411
Alexander	4735	4730	4807	4801
Elk	5095	5084	5126	5114
Rhinstreet	6075	6029	6282	6234
Cashaqua	6282	6234	6507	6454
Middlesex	6512	6459	6602	6541
West River	6618	6555	6735	6651
Burket	6746	6661	6771	6678
Tully	6789	6692	6911	6770
Hamilton	6932	6784	7036	6832
Marcellus	7062	6843	22524	6994

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3,242' to Bottom Hole

8,346' to Top Hole

TOP LATITUDE 39 - 07 - 30  
BTM LATITUDE 39 - 05 - 00

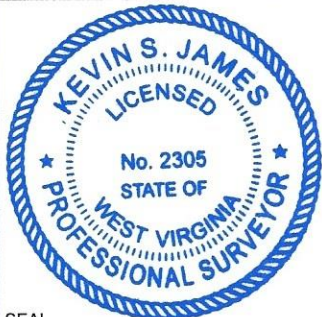
LONGITUDE 80 - 27 - 30

2,492' to Top Hole

2,132' to Bottom Hole

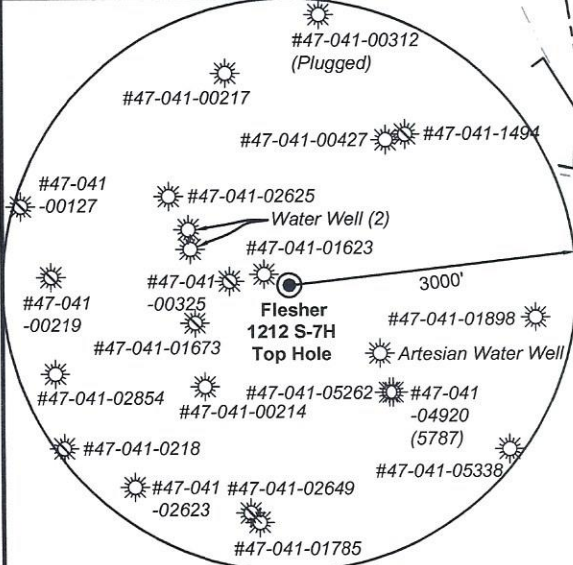
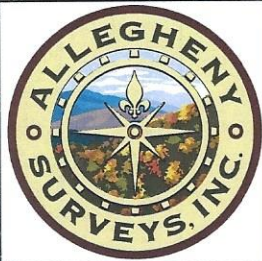
HG Energy II Appalachia, LLC  
Well No. Flesher 1212 S-7H  
As-Drilled

Page 1 of 4



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.

*Kevin S. James*  
Kevin S. James, P.S. 2305



Note: 2 water wells and 1 artesian 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: 156-36-12-U-F-19  
DRAWING NO: Flesher 1212 S-7H As-Drilled  
SCALE: 1" = 2000'  
MINIMUM DEGREE OF ACCURACY: Submeter  
PROVEN SOURCE OF ELEVATION: CORS, Bridgeport, WV

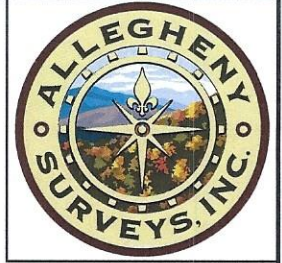
STATE OF WEST VIRGINIA  
DEPARTMENT OF ENVIRONMENTAL PROTECTION  
OIL AND GAS DIVISION

DATE: January 19, 2022  
OPERATOR'S WELL NO. Flesher 1212 S-7H  
API WELL NO  
47 - 041 - 05716  
STATE COUNTY PERMIT

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

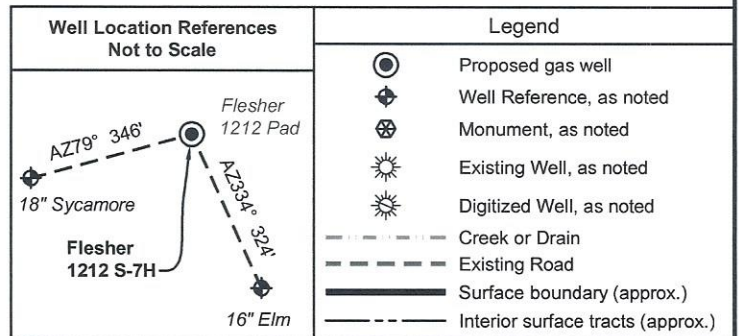
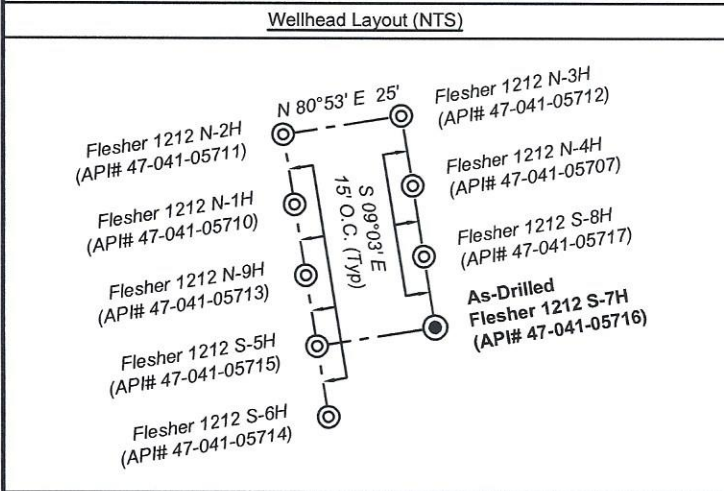
LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek QUADRANGLE: Weston  
DISTRICT: Freemans Creek COUNTY: Lewis  
SURFACE OWNER: H.G. Energy II Appalachia, LLC ACREAGE: 70.00  
ROYALTY OWNER: W.D. Hitt, et al, et al LEASE NO: ACREAGE: 210.00  
PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled Plat 6,994' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,524' 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



ID	Lease
12	C.L. Hitt, et al
16	George Norris, et al
17	H.M. Stewart & C.J. Stewart
18	W.E. Carpenter, et al
19A	Eastern Gas Transmission & Storage, Inc.
19B	CNX Gas Co., LLC
20	Dominion Transmission, Inc.
22	Noble Energy, Inc.
26	W.D. Hitt, et al
28	Charles F. Bailey, et al
53	Granville A. Butcher, et al
54	John F. Wyant
63	Prudence M. O'Hara, et al
66	Philip L. Jones, et al
81	Burton B. Butcher, et al
91	S. Clifford Dent

Tag	Bearing	Dist.	Description
L1	N 42°43' W	1,513.6'	#47-041-05262
L2	N 24°51' E	664.5'	1/2" Rebar
L3	N 68°43' E	1,615.6'	1" Iron pipe
L4	S 53°14' E	1,583.7'	#47-041-02625



Legend	
	Proposed gas well
	Well Reference, as noted
	Monument, as noted
	Existing Well, as noted
	Digitized Well, as noted
	Creek or Drain
	Existing Road
	Surface boundary (approx.)
	Interior surface tracts (approx.)

Notes: Well No. Flesher 1212 S-7H	Notes:
West Virginia Coordinate System of 1927, North Zone based upon Differential GPS Measurements.	Well No. Flesher 1212 S-7H
Top Hole coordinates Latitude: 39°07'05.36" Longitude: 80°29'15.92"	UTM NAD 1983 (USSF)
Bottom Hole coordinates Latitude: 39°04'38.93" Longitude: 80°28'11.13"	Top Hole Coordinates
UTM Zone 17, NAD 1983	N: 14,206,086.55'
Top Hole Coordinates N: 4,330,023.845m E: 544,298.245m	E: 1,785,751.82'
Bottom Hole Coordinates N: 4,325,518.863m E: 545,880.716m	Landing Point Coordinates
Plat orientation and corner and well references are based upon the grid north meridian. Well location references are based upon the magnetic meridian.	N: 14,205,876.83'
	E: 1,785,815.76'
	Bottom Hole Coordinates
	N: 14,191,306.47'
	E: 1,790,943.65'

FILE NO: 156-36-12-U-F-19  
DRAWING NO: Flesher 1212 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**

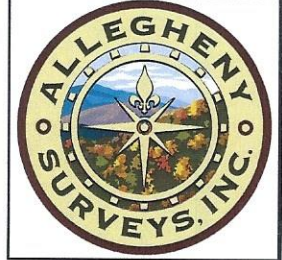
DATE: January 19 2022  
OPERATOR'S WELL NO. Flesher 1212 S-7H  
API WELL NO  
47 - 041 - 05716  
STATE COUNTY PERMIT

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(IF GAS) PRODUCTION:  STORAGE  DEEP  SHALLOW

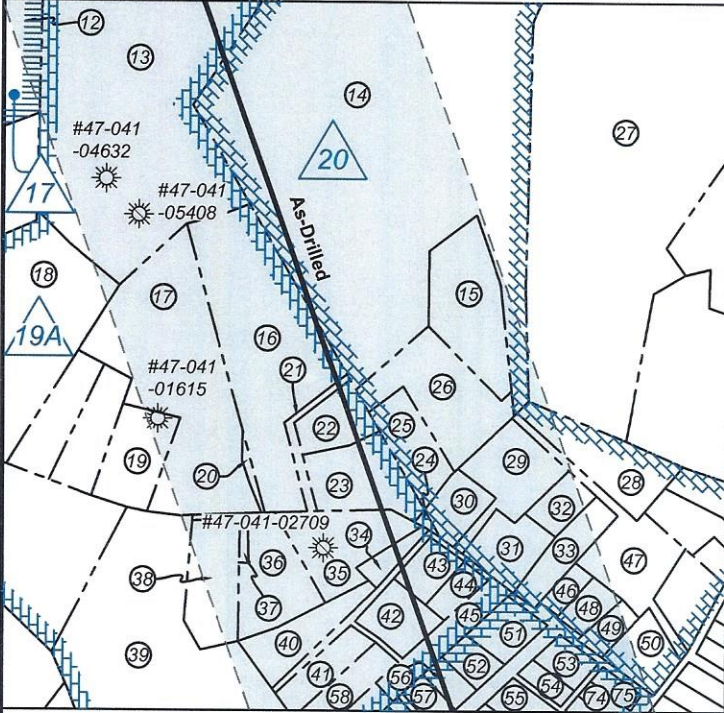
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ROYALTY OWNER: W.D. Hitt, et al, et al LEASE NO: ACREAGE: 210.00

PROPOSED WORK:  DRILL  CONVERT  DRILL DEEPER  FRACTURE OR STIMULATE  PLUG OFF OLD FORMATION  
 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled Plat 6,994' TVD  
 PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,524' MD

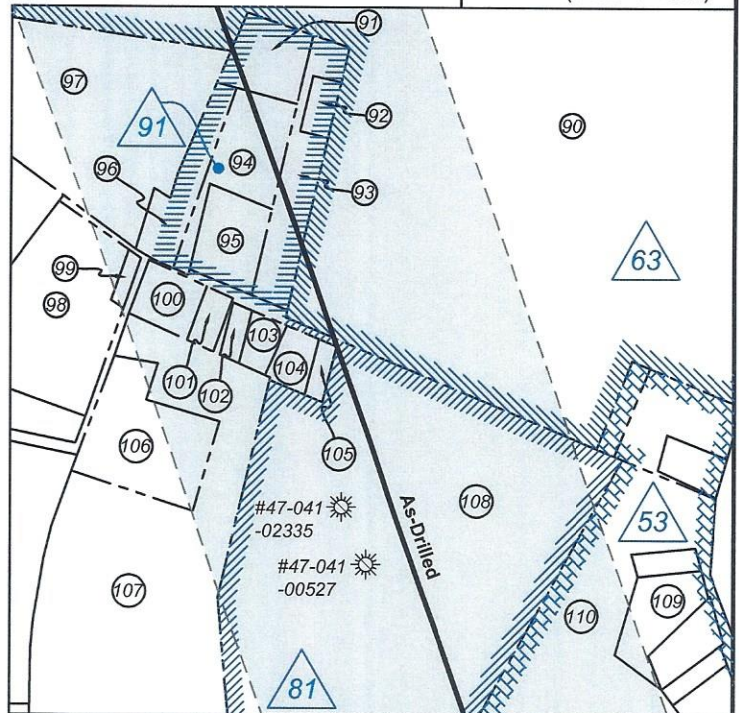
WELL OPERATOR: HG Energy II Appalachia, LLC DESIGNATED AGENT: Diane C. White  
ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road  
Parkersburg, WV 26101 Parkersburg, WV 26101



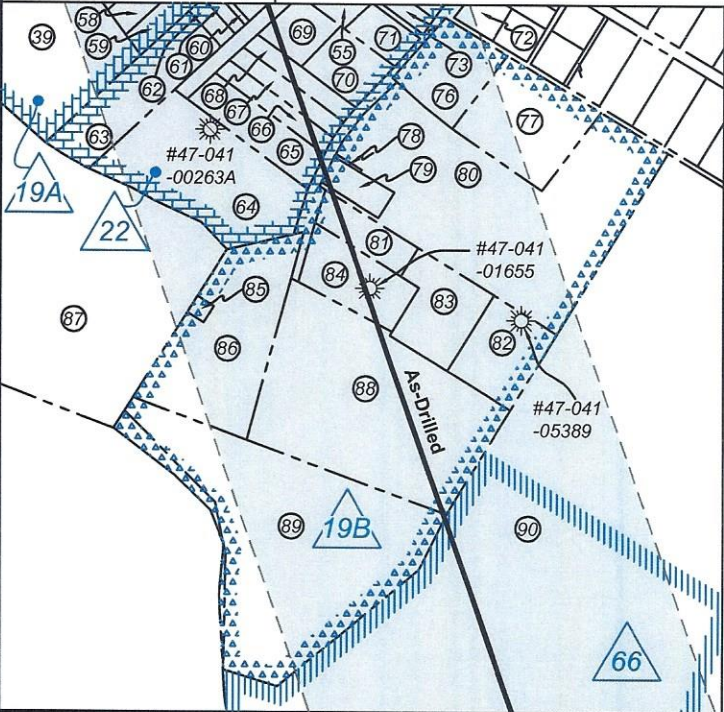
Detail 1 (Scale 1"=500')



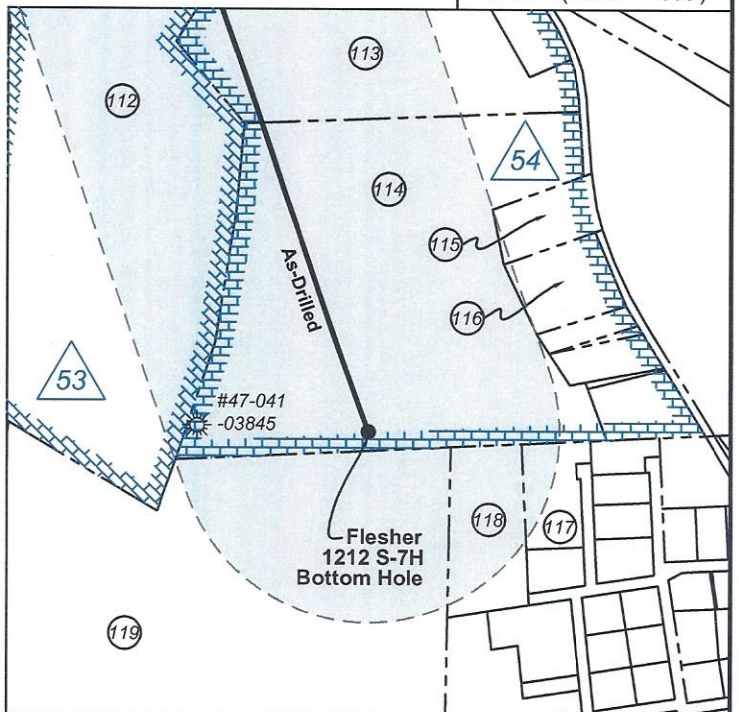
Detail 3 (Scale 1"=500')



Detail 2 (Scale 1"=500')



Detail 4 (Scale 1"=500')



FILE NO: 156-36-12-U-F-19  
 DRAWING NO: Flesher 1212 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: January 19 2022  
 OPERATOR'S WELL NO. Flesher 1212 S-7H  
 API WELL NO  
 47 — 041 — 05716  
 STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,332.2' WATERSHED: Middle West Fork Creek

QUADRANGLE: Weston

DISTRICT: Freemans Creek

COUNTY: Lewis

SURFACE OWNER: H.G. Energy II Appalachia, LLC

ACREAGE: 70.00

ROYALTY OWNER: W.D. Hitt, et al, et al

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 PERFORATE NEW FORMATION  OTHER PHYSICAL CHANGE IN WELL (SPECIFY) As Drilled Plat

PLUG AND ABANDON  CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 22,524' MD

WELL OPERATOR: HG Energy II Appalachia, LLC

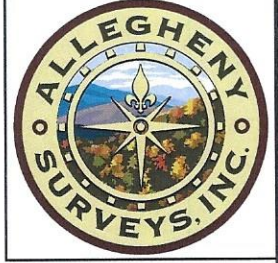
DESIGNATED AGENT: Diane C. White

ADDRESS: 5260 Dupont Road

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Parkersburg, WV 26101

Parkersburg, WV 26101



Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 47	HG Energy II Appalachia, LLC	753 / 453	70.00
2	6C / 45	Fred A. Bailey	W25 / 263	48.00
3	6C / 25.1	William Radtka & Helen Burton	655 / 681	5.85
4	6C / 43	Gary A. Sias	646 / 688	50.59
5	6C / 32.1	Fred A. Bailey	W25 / 263	92.89
6	6C / 42	Fred A. Bailey	W25 / 263	6.70
7	6C / 41	Larry R. & Gina F. Simon	702 / 865	19.11
8	6C / 40	Scott & Amy Carpenter	709 / 821	45.95
9	6C / 40.1	Jeffrey R. & Pamela J. Nicholson	713 / 40	5.50
10	7C / 16	Charles D. Bailey, et al	763 / 630	130.50
11	6C / 39	Phyllis L. & Dolores A. Hinterer	591 / 653	23.00
12	6D / 42	Michael & Kelly M. Goodwin	682 / 485	15.98
13	6D / 43	Deborah D. Hunt	W24 / 544	17.50
14	7D / 1.3	Deborah D. Hunt	W24 / 544	23.83
15	2 / 13.1	David & Lindsey Hunt	732 / 257	1.50
16	6D / 48	Bo D. Hendershot	722 / 864	3.65
17	6D / 47.1	Charlotte Radcliff	552 / 668	3.99
18	6D / 45	Blanch E. & Gregory K. Williams	619 / 660	6.24
19	6D / 50.2	Elbert R. & Lisa C. Rohrbough	496 / 301	1.12
20	6D / 47.3	Bo D. Hendershot	722 / 864	0.08
21	2 / 15.1	Bo D. Hendershot	722 / 864	0.17
22	2 / 15.2	Homer L. & Charlotte G. Taylor	420 / 508	0.57
23	2 / 15	Mary Jane McKay (Life)	638 / 77	0.62
24	2 / 15.3	Meranda Burnside	406 / 155	0.04
25	2 / 14.1	Deborah D. Hunt	W24 / 544	0.73
26	2 / 13	Deborah D. Hunt	582 / 575	0.92
27	7D / 3	Fred & Ginger Bailey	653 / 717	21.18
28	7D / 1.2	Gary A. & Tina M. Butcher	530 / 171	1.07
29	2 / 12	Amy & Samuel Sedosky	646 / 496	0.94
30	2 / 11	Lewis A. Adams, et al	579 / 513	0.50
31	2 / 10	David L. & Susanna H. Roth	612 / 1	0.65
32	2 / 9.2	Ruth & Edward Pratt (L&E)	567 / 528	0.36
33	2 / 9	Perry E. Blake	733 / 862	0.51
34	2 / 18	Timothy G. & Judith M. Metz	661 / 582	0.21
35	2 / 17	Allen S. & Rebecca A. Moore	564 / 119	1.59
36	2 / 16	Larry J. Bailey	718 / 100	1.16
37	2 / 16.1	Charles E. & Linda K. Starrett	608 / 255	0.06
38	6D / 49.1	Charles E. & Linda K. Starrett	571 / 538	1.01
39	6D / 49	Robert L. & Patricia J. Bush	684 / 27	7.11
40	2 / 19	Tina M. & John L. Burnside, III	560 / 230	0.75
41	2 / 20	Dennis E. & Sandra D. Strader	449 / 433	0.50
42	2 / 22	Timothy G. & Judith M. Metz	737 / 903	0.55
43	2 / 23	Timothy G. & Judith M. Metz	661 / 582	0.42
44	2 / 23.1	Selena R. Barton	724 / 548	0.27
45	2 / 24	Michael A. Butcher	533 / 248	0.65
46	2 / 7	Joel F. & R. Steven Jones	W17 / 262	0.24
47	7D / 1	Arabelle Butcher (Life)	F30 / 796	1.03
48	2 / 6	Robert Painter	601 / 352	0.25
49	2 / 5	Lisa D. Stapleton	714 / 775	0.24
50	2 / 4	Wilfred L. & Virginia S. Sholes	383 / 84	0.50
51	2 / 25	Rachael M. & John R. Freeman	637 / 797	0.44
52	2 / 26	Bruce A. & Deana L. Kefover	541 / 16	0.53
53	2 / 33	Mary Jane Pratt, et al	W20 / 525	0.28
54	2 / 32	Franklin F. Pratt, Trustee	W20 / 525	0.17
55	2 / 31.9	Marty A. & Lorrie L. Cleavenger	725 / 875	0.32
56	2 / 27	Bruce A. & Deana L. Kefover	541 / 16	0.21
57	2 / 27.1	Thomas R. & Connie R. Stuckey	496 / 373	0.21
58	2 / 21	Mark P. & Lee A. Coplin	537 / 565	0.55
59	2 / 24.1	Nelson E. & Erma F. Toms	533 / 248	0.35
60	2 / 28	Thomas R. & Connie R. Stuckey	496 / 373	0.04

Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
61	2 / 29	Elsie C. Sprouse	W26 / 411	0.10
62	2 / 30	Elsie C. Sprouse	W26 / 411	0.14
63	2 / 31.7	Nelson O. Toms	FID	2.70
64	2 / 31	Paul J. & Helen S. Derico	318 / 252	1.20
65	2 / 31.6	Paul J. & Helen S. Derico	330 / 163	0.84
66	2 / 31.5	Josh Marsh	746 / 717	0.39
67	2 / 31.4	Josh Marsh	746 / 717	0.37
68	2 / 31.3	Josh Marsh	746 / 717	0.36
69	2 / 31.2	Mark A. Metzgar	680 / 462	0.47
70	2 / 31.8	David B. & Kristina A. Smith	713 / 610	0.60
71	2 / 31.1	Zachary A. Byers	714 / 369	0.36
72	2 / 42	Sandi Jean Thompson	363 / 42	0.26
73	2 / 36	Zachary A. Byers	767 / 791	0.16
74	2 / 35	Gary J. & Mary J. Woofter	670 / 362	0.15
75	2 / 34	Gary J. & Mary J. Woofter	670 / 362	0.15
76	2 / 41	Pamela M. Casto Davis	WBF / 2004	0.89
77	2 / 40	Ronald L. & Nancy L. Asbury	703 / 157	1.50
78	2 / 38.1	Archie E. Latea, et al	F29 / 370	0.01
79	2 / 37	Archie E. Latea, et al	F29 / 370	0.30
80	2 / 38	Ronald L. & Nancy L. Asbury	603 / 4	5.90
81	7D / 4.1	Gary T. McWhorter	602 / 227	0.55
82	7D / 4.3	Danny E. & Angela M. McCloud	582 / 734	1.04
83	7D / 4.4	Danny E. & Angela M. McCloud	582 / 734	1.06
84	7D / 4.2	Chad L. Greenlief	575 / 115	1.00
85	6D / 100.1	Weston Sanitary Board	730 / 621	0.06
86	6D / 100	Paul J. & Helen S. Derico	571 / 557	2.78
87	6D / 62	Edward E. Garrett	482 / 161	13.57
88	7D / 5	Stephen J. & Tamara B. Wilson	571 / 560	5.33
89	7D / 6	Edwin L. Bowyer II	480 / 630	5.08
90	7D / 32	WVU Board of Governors	584 / 524	221.65
91	6 / 21.2	Jerry & Sallie Myers	450 / 60	0.88
92	6 / 22.1	Jerry & Sallie Myers	323 / 364	0.26
93	6 / 22	Sallie Myers	W14 / 79	1.38
94	6 / 21.1	Whitney Ballard, et al	740 / 282	1.28
95	6 / 20	Whitney Ballard, et al	740 / 282	0.92
96	6 / 21	David K. & Brenda K. Singleton	683 / 76	0.90
97	6 / 16	Word of Life Christian Center	420 / 222	6.50
98	6 / 13	Chelsea E. & Penny D. Syrews	767 / 248	3.10
99	6 / 18	Carolyn M. Cosner	W28 / 479	0.12
100	6 / 19.1	Harvey R. & Paula J. Montgomery	319 / 93	0.57
101	6 / 19	Charles E. McCorkhill	698 / 263	0.21
102	6 / 23	Jill L. Floyd	452 / 345	0.17
103	6 / 24	Cody J. & Angel McCorkhill	746 / 211	0.29
104	6 / 25	Debra K. Murray	W31 / 92	0.34
105	6 / 26	Debra K. Murray	W31 / 92	0.17
106	7D / 22	Roger & Linda Arbogast	726 / 46	2.00
107	7D / 21	Roger & Linda Arbogast	698 / 547	11.47
108	7D / 35	Patricia A. Workman	W28 / 381	19.66
109	7D / 37	Ernest G. Carpenter, et al	571 / 364	1.03
110	7D / 40	Patricia A. Workman	W28 / 381	7.22
111	7E / 71	Serge Cormier	604 / 130	12.92
112	7E / 29	Martha C. Queen (Life)	553 / 416	26.80
113	7E / 30	Susan Butcher, et al	W20 / 204	11.00
114	7E / 31	Susan Butcher, et al	W20 / 204	7.97
115	7E / 31.5	Michael D. & Connie S. Chapman	398 / 117	0.93
116	7E / 31.4	Michael D. & Connie S. Chapman	362 / 169	1.16
117	7E / 34.9	Mark R. & Sharon D. Pellien	592 / 708	0.93
118	7E / 34.1	Matthew S. Kiser	672 / 606	2.94
119	7E / 28.4	Alicia K. Lowther, et al	W45 / 456	47.88

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