

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



API 47 - 041 - 05720 County Lewis District Freemans Creek
Quad Camden Pad Name Evans 1213 Field/Pool Name Kennedy
Farm name Evans Well Number Evans 1213 N4H
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 4329720.777 Easting 541942.186
Landing Point of Curve Northing 4330127 Easting 542881
Bottom Hole Northing 4336174.235 Easting 540738.151

Elevation (ft) 1228 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine

Mud Type(s) and Additive(s)
Air/WBM (gas storage)/OBM
Barite, Lime, CaCL, base oil, Gilsonite, Asphalt, clay, Emulsifier, sulfatone, safevert FLG, safevert WA

Date permit issued 05/03/2021 Date drilling commenced 5/16/2021 Date drilling ceased 4/22/2022
Date completion activities began 7/15/2022 Date completion activities ceased 8/5/2022
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 Not observed 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 452,468,530,600,900,1025,1107 Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) No

Reviewed by: [Signature]
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5-9-24

API 47-041 - 05720 Farm name Evans Well number Evans 1213 N4H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor	30"	30"	120	New	157 lb/ft LS		Drilled in
Surface	26"	20"	1139	New	94 lbs/ft J-55		Yes, 115 bbl to surface
Coal							
Intermediate 1	17.5"	13.375"	2073	New	68 lbs/ft J55		Yes, 130 bbl to surface
Intermediate 2	12.25"	9.625"	5077	New	40 lbs/ft N80		Yes, 61 bbl to surface
Intermediate 3							
Production	8.5"	5.5"	29441	New	23 lbs/ft P-110HP		Yes, 260 bbl to surface
Tubing							
Packer type and depth set							

Comment Details _____

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface	Class A	2200	15.6	1.18	2596	Surface	8
Coal							
Intermediate 1	Class A	1894/480	16.0/16.4	1.16/1.12	2197/537	Surface	24
Intermediate 2	Class A	685/183	10.5/15.2	2.2/1.25	1507/229	Surface	8
Intermediate 3							
Production	Class A	1184/379/4495	13.5/13.5/14.8	1.82/1.67/1.34	2155/633/6023	Surface	8
Tubing							

Drillers TD (ft) 29471 Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) _____

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

20" casing: centralizer every 3 joints to surface
 13.375" casing: Bow spring centralizer on every joint
 9.625" casing: Bow spring on first 2 joints then every 3rd joint to 100' from surface
 5.5" casing: Centralizer run every 3 joints to top of curve (KOP) then centralizers placed every 5 joints to surface

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WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____ WV Department of Environmental Protection

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

HG Energy II Appalachia, LLC
Evans 1213 N-4H
Lithology Record

Formation	Top MD	Top TVD	Base MD	Base TVD
Coal	452	452	455	455
Coal	468	468	471	471
Coal	530	530	533	533
Coal	600	600	603	603
Gas Sand	680	680	840	840
1st salt sand	888	888	933	933
Coal	900	900	902	902
Coal	1025	1025	1028	1028
2nd salt sand	1086	1086	1139	1139
Coal	1107	1107	1109	1109
Surface Casing	1179	drill	1139	set
3rd salt sand	1233	1233	1286	1286
Little Lime	1501	1501	1521	1521
Greenbrier Big Lime		1551	1621	1621
T - Pocono Big Injun		1621	1719	1719
Gantz	1890	1890	1950	1950
Fifty foot Sand	2002	2002	2020	2020
Casing depth	2093	drill	2073	set
Thirty foot Sand	2100	2100	2131	2131
Gordon Stray sand	2146	2146	2182	2182
Gordon sand	2182	2182	2260	2260
5th sand	2394	2393	2430	2429
Bayard sand	2474	2473	2507	2505
Warren	2798	2791	2834	2827
Speechley	3112	3094	3133	3114
Balltown	3350	3314	3452	3408
Benson	4672	4384	4718	4415
9 5-/8" casing depth	5107	drill	5077	set
Rhinestreet	6983	5938	7296	6156
Cashaqua	7296	6156	7539	6326
Middlesex	7539	6326	7701	6432
West River	7701	6432	7932	6553
Burket	7932	6553	8010	6588
Tully	8010	6588	8206	6675
Hamilton	8206	6675	8398	6747
Marcellus shale	8398	6747	29471	7181

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Perforation Record

Stage #	Date	Perforation From Depth	Perforation to Depth	Number of Perforations	Formation
Sleeve/1	5/7/2022	29393	29369	2	Marcellus
2	5/7/2022	29335	29167	32	Marcellus
3	5/8/2022	29139	28971	32	Marcellus
4	5/8/2022	28943	28775	32	Marcellus
5	5/9/2022	28747	28579	32	Marcellus
6	5/9/2022	28551	28383	32	Marcellus
7	5/9/2022	28355	28187	32	Marcellus
8	5/9/2022	28159	27991	32	Marcellus
9	5/10/2022	27963	27795	32	Marcellus
10	5/10/2022	27767	27599	32	Marcellus
11	5/11/2022	27571	27403	32	Marcellus
12	5/11/2022	27375	27207	32	Marcellus
13	5/11/2022	27179	27011	32	Marcellus
14	5/12/2022	26983	26815	32	Marcellus
15	5/12/2022	26787	26619	32	Marcellus
16	5/12/2022	26591	26423	32	Marcellus
17	5/13/2022	26395	26227	32	Marcellus
18	5/13/2022	26199	26031	32	Marcellus
19	5/13/2022	26003	25835	32	Marcellus
20	5/14/2022	25807	25639	32	Marcellus
21	5/14/2022	25611	25443	32	Marcellus
22	5/14/2022	25415	25247	32	Marcellus
23	5/14/2022	25219	25051	32	Marcellus
24	5/15/2022	25023	24855	32	Marcellus
25	5/15/2022	24827	24659	32	Marcellus
26	5/15/2022	24631	24463	32	Marcellus
27	5/15/2022	24435	24267	32	Marcellus
28	5/16/2022	24239	24071	32	Marcellus
29	5/16/2022	24043	23875	32	Marcellus
30	5/16/2022	23847	23679	32	Marcellus
31	5/16/2022	23651	23483	32	Marcellus
32	5/17/2022	23455	23287	32	Marcellus
33	5/17/2022	23259	23091	32	Marcellus
34	5/17/2022	23063	22895	32	Marcellus
35	5/17/2022	22867	22699	32	Marcellus
36	5/18/2022	22671	22503	32	Marcellus
37	5/18/2022	22475	22307	32	Marcellus
38	5/18/2022	22279	22111	32	Marcellus
39	5/19/2022	22083	21915	32	Marcellus
40	5/19/2022	21887	21719	32	Marcellus
41	5/19/2022	21691	21523	32	Marcellus
42	5/19/2022	21495	21327	32	Marcellus
43	5/20/2022	21299	21131	32	Marcellus
44	5/20/2022	21103	20935	32	Marcellus
45	5/20/2022	20907	20739	32	Marcellus
46	5/20/2022	20711	20543	32	Marcellus
47	5/21/2022	20515	20347	32	Marcellus
48	5/21/2022	20319	20151	32	Marcellus
49	5/21/2022	20123	19955	32	Marcellus
50	5/22/2022	19927	19759	32	Marcellus
51	5/22/2022	19731	19563	32	Marcellus
52	5/22/2022	19535	19367	32	Marcellus
53	5/22/2022	19339	19171	32	Marcellus
54	5/22/2022	19143	18975	32	Marcellus
55	5/23/2022	18947	18779	32	Marcellus

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56	5/23/2022	18751	18583	32	Marcellus
57	5/23/2022	18555	18387	32	Marcellus
58	5/23/2022	18359	18191	32	Marcellus
59	5/24/2022	18163	17995	32	Marcellus
60	5/24/2022	17967	17799	32	Marcellus
61	5/24/2022	17771	17603	32	Marcellus
62	5/24/2022	17575	17407	32	Marcellus
63	5/24/2022	17379	17211	32	Marcellus
64	5/25/2022	17183	17015	32	Marcellus
65	5/25/2022	16987	16819	32	Marcellus
66	5/25/2022	16791	16623	32	Marcellus
67	5/25/2022	16595	16427	32	Marcellus
68	5/26/2022	16399	16231	32	Marcellus
69	5/26/2022	16203	16035	32	Marcellus
70	5/26/2022	16007	15839	32	Marcellus
71	5/26/2022	15811	15643	32	Marcellus
72	5/27/2022	15615	15447	32	Marcellus
73	5/27/2022	15419	15251	32	Marcellus
74	5/27/2022	15223	15055	32	Marcellus
75	5/27/2022	15027	14859	32	Marcellus
76	5/27/2022	14813	14663	32	Marcellus
77	6/30/2022	14635	14467	32	Marcellus
78	7/1/2022	14439	14271	32	Marcellus
79	7/1/2022	14244	14076	32	Marcellus
80	7/1/2022	14050	13882	32	Marcellus
81	7/2/2022	13856	13688	32	Marcellus
82	7/2/2022	13662	13494	32	Marcellus
83	7/3/2022	13468	13300	32	Marcellus
84	7/3/2022	13274	13106	32	Marcellus
85	7/3/2022	13080	12912	32	Marcellus
86	7/3/2022	12886	12718	32	Marcellus
87	7/4/2022	12692	0	32	Marcellus
88	7/4/2022	12498	12330	32	Marcellus
89	7/4/2022	12304	12136	32	Marcellus
90	7/5/2022	12110	11942	32	Marcellus
91	7/5/2022	11916	11748	32	Marcellus
92	7/5/2022	11722	11554	32	Marcellus
93	7/5/2022	11528	11360	32	Marcellus
94	7/5/2022	11334	11166	32	Marcellus
95	7/6/2022	11140	10972	32	Marcellus
96	7/6/2022	10946	10778	32	Marcellus
97	7/6/2022	10752	10584	32	Marcellus
98	7/6/2022	10558	10390	32	Marcellus
99	7/7/2022	10364	10196	32	Marcellus
100	7/7/2022	10170	10002	32	Marcellus
101	7/7/2022	9976	9808	32	Marcellus
102	7/7/2022	9782	9614	32	Marcellus
103	7/7/2022	9588	9420	32	Marcellus
104	7/8/2022	9394	9226	32	Marcellus
105	7/8/2022	9200	9032	32	Marcellus
106	7/8/2022	9006	8838	32	Marcellus
107	7/9/2022	8812	8644	32	Marcellus
108	7/9/2022	8618	8474	28	Marcellus

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Stimulation Summary

Stage #	Date	Ave Pump Rate (BPM)	Ave Treatment Press (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve/1	5/7/2022	29.0	9539	7014	5205	0	3,379
2	5/7/2022	71.0	8,749	7,694	3,266	700000	14,933
3	5/8/2022	78.0	10,080	6,440	4,385	700000	14,846
4	5/8/2022	77.0	9,972	6,073	3,887	702500	13,522
5	5/9/2022	81.0	10,182	6,335	5,066	704900	12,426
6	5/9/2022	80.0	10,107	6,061	5,210	705400	11,396
7	5/9/2022	80.0	10,437	6,485	5,602	431100	9,065
8	5/9/2022	82.0	9,970	5,927	4,974	635000	10,122
9	5/10/2022	81.0	10,080	6,276	5,248	705300	10,686
10	5/10/2022	79.0	10,064	6,578	6,629	705000	10,371
11	5/11/2022	86.0	10,365	6,113	5,228	704950	10,394
12	5/11/2022	86.0	10,261	6,218	5,743	704950	10,466
13	5/11/2022	86.0	10,309	6,293	5,030	705000	12,133
14	5/12/2022	86.0	10,211	6,062	5,711	704500	10,370
15	5/12/2022	84.0	10,054	6,180	5,771	705000	10,282
16	5/12/2022	81.0	10,318	7,066	5,370	705000	10,045
17	5/13/2022	82.0	10,190	6,697	5,128	668659	9,687
18	5/13/2022	83.0	10,430	6,743	5,187	704500	13,555
19	5/13/2022	84.0	10,302	6,108	5,504	705000	10,385
20	5/14/2022	81.0	10,168	5,724	5,132	705000	12,814
21	5/14/2022	86.0	10,445	6,524	4,771	704500	12,926
22	5/14/2022	87.5	10,367	6,221	5,710	689190	11,671
23	5/14/2022	89.1	10,494	6,642	5,061	705000	9,902
24	5/15/2022	88.0	10,420	6,948	5,354	705000	10,180
25	5/15/2022	88.0	10,345	6,323	4,996	684263	10,185
26	5/15/2022	88.4	10,228	6,369	4,988	704500	10,328
27	5/15/2022	84.7	10,515	6,767	6,165	585360	12,615
28	5/16/2022	89.0	10,433	6,875	5,828	705000	10,196
29	5/16/2022	90.0	10,379	6,526	5,975	705000	10,249
30	5/16/2022	81.8	9,585	6,468	5,975	691880	10,016
31	5/16/2022	87.6	10,426	6,549	5,983	690000	9,972
32	5/17/2022	85.0	10,471	5,920	5,374	690000	9,938
33	5/17/2022	80.0	10,098	6,026	5,208	571500	9,292
34	5/17/2022	89.9	10,280	6,961	5,359	690000	9,961
35	5/17/2022	89.5	10,401	6,416	5,459	690000	9,867
36	5/18/2022	88.0	10,582	6,455	5,854	475500	9,622
37	5/18/2022	87.0	10,263	6,488	5,898	689900	9,974
38	5/18/2022	85.2	10,421	6,421	4,836	690020	11,596
39	5/19/2022	85.0	10,493	6,250	5,613	690600	9,689
40	5/19/2022	86.0	10,487	5,782	6,405	690600	9,810
41	5/19/2022	86.9	10,470	5,963	5,304	690620	9,813
42	5/19/2022	87.3	10,287	6,033	5,812	690000	11,328
43	5/20/2022	92.0	10,584	6,255	6,106	691300	10,052
44	5/20/2022	95.0	10,588	5,788	5,814	690600	9,906
45	5/20/2022	91.0	10,388	6,177	5,663	690050	9,907
46	5/20/2022	91.8	10,326	5,486	5,591	690000	9,709
47	5/21/2022	88.0	10,460	5,988	6,103	690000	10,343
48	5/21/2022	95.0	10,632	6,433	6,122	690000	9,888
49	5/21/2022	94.2	10,302	6,764	5,178	690000	11,093
50	5/22/2022	94.5	10,340	6,526	5,651	690000	10,006
51	5/22/2022	92.0	10,358	6,354	6,483	690100	9,775
52	5/22/2022	84.0	10,345	6,355	5,312	690500	13,570
53	5/22/2022	94.6	10,334	6,683	5,408	690040	9,759
54	5/22/2022	94.0	10,360	6,232	5,869	690000	9,680

55	5/23/2022	88.0	10,383	6,758	5,923	690500	9,840
56	5/23/2022	91.0	10,322	6,735	5,257	642600	9,535
57	5/23/2022	97.9	10,363	6,298	5,352	689130	9,729
58	5/23/2022	99.6	10,414	5,402	5,288	690000	9,754
59	5/24/2022	95.0	10,367	6,165	5,590	690000	9,454
60	5/24/2022	93.0	10,359	6,625	5,963	677000	9,649
61	5/24/2022	98.4	10,064	6,240	5,612	690000	9,776
62	5/24/2022	96.0	10,435	6,297	5,347	690000	9,724
63	5/24/2022	91.0	10,129	6,300	4,941	690000	9,721
64	5/25/2022	94.0	10,340	6,950	5,565	690000	9,770
65	5/25/2022	93.7	10,317	6,974	5,208	690000	9,709
66	5/25/2022	94.4	10,467	5,925	5,154	678500	9,816
67	5/25/2022	97.8	10,370	6,080	5,005	690000	9,768
68	5/26/2022	92.0	10,276	6,759	5,173	690000	9,694
69	5/26/2022	94.0	10,222	6,512	5,032	690000	9,641
70	5/26/2022	95.6	10,255	6,060	4,936	689920	9,756
71	5/26/2022	99.9	10,368	6,266	5,249	690000	9,632
72	5/27/2022	98.0	10,264	6,834	5,143	690000	9,837
73	5/27/2022	98.0	10,262	6,781	4,837	690000	9,869
74	5/27/2022	100.6	10,196	6,053	5,727	690000	9,767
75	5/27/2022	102.7	10,196	6,203	5,097	690000	9,775
76	5/27/2022	97.0	10,321	5,308	5,667	690000	10,986
77	6/30/2022	97.0	10,293	6,142	5,409	690000	9,182
78	7/1/2022	93.4	10,096	6,269	4,616	690000	10,858
79	7/1/2022	83.5	9,877	6,026	4,852	213870	10,977
80	7/1/2022	97.0	10,006	5,683	5,094	690000	9,393
81	7/2/2022	99.1	10,244	5,513	4,825	690000	11,154
82	7/2/2022	87.0	9,412	5,457	5,216	635000	11,852
83	7/3/2022	94.1	9,364	4,757	5,056	690000	9,218
84	7/3/2022	91.0	9,419	6,218	5,024	677900	8,820
85	7/3/2022	92.0	9,191	4,944	4,840	690000	10,244
86	7/3/2022	94.0	9,529	5,951	5,339	664000	8,735
87	7/4/2022	83.0	9,348	5,573	5,020	700000	9,208
88	7/4/2022	94	10241	5646	5105	700000	9215
89	7/4/2022	86.9	9608	5370	5253	700000	9088
90	7/5/2022	90	9651	5951	5276	700000	9754
91	7/5/2022	95	9376	5580	5176	700000	9576
92	7/5/2022	100.1	9618	6351	5133	700000	10373
93	7/5/2022	99	9586	6380	5064	700000	9220
94	7/5/2022	102	9681	6820	5586	700000	9193
95	7/6/2022	88	9204	6835	5100	364000	7721
96	7/6/2022	98.6	9283	5712	4760	700000	9658
97	7/6/2022	105.6	10029	5850	5187	700000	8847
98	7/6/2022	100	9982	5026	4620	499900	9831
99	7/7/2022	98	9113	5115	5117	700000	10374
100	7/7/2022	90.6	9040	6975	4695	675000	10448
101	7/7/2022	102	9654	6787	5134	700000	9181
102	7/7/2022	106	9685	5404	5234	700000	8994
103	7/7/2022	100	9080	6805	5160	700000	10124
104	7/8/2022	105	9418	6160	5200	700000	9673
105	7/8/2022	108	9670	6996	5599	700000	9097
106	7/8/2022	106.4	9474	5951	5464	700000	8975
107	7/9/2022	99	9187	6847	5200	700000	9401
108	7/9/2022	92	9444	6847	4992	715200	11817

05/10/2024
RECEIVED
Office of Oil and Gas

FEB 26 2024

WV Department of
Environmental Protection

HG Energy II Appalachia, LLC
Well No. Evans 1213 N-4H
As-Drilled

Page 1 of 2

Match Line - Page 2

8,096' to Bottom Hole

4,263' to Top Hole

TOP LATITUDE 39 - 07 - 30
BTM LATITUDE 39 - 12 - 30

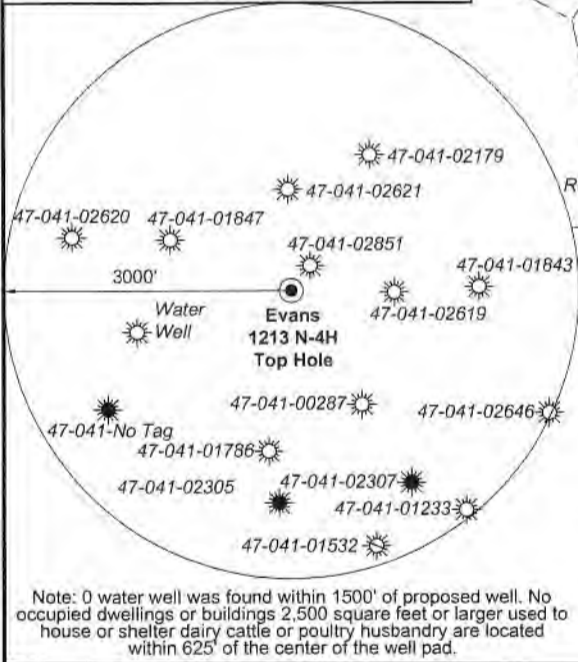
LONGITUDE 80 - 30 - 00
3,444' to Top Hole



Notes:
Well No. Evans 1213 N-4H
UTM NAD 1983 (USSF)
Top Hole Coordinates
N: 14,205,092.25'
E: 1,778,021.99'
Landing Point Coordinates
N: 14,206,423.56'
E: 1,781,103.33'
Bottom Hole Coordinates
N: 14,226,264.97'
E: 1,774,071.75'

Tag	Bearing	Dist.	Description
L1	N 88°33' W	1,044.6'	#47-041-02619
L2	S 68°04' E	1,391.2'	#47-041-01847
L3	S 31°04' E	511.6'	Gate Post
L4	S 12°00' E	2,471.2'	5/8" Rebar w/cap

Notes: Well No. Evans 1213 N-4H
West Virginia Coordinate System of 1927, North Zone
based upon Differential GPS Measurements.
Top Hole coordinates Bottom Hole coordinates
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UTM Zone 17, NAD 1983
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E: 541,942.186m E: 540,738.151m
Plat orientation and corner and well references are
based upon the grid north meridian. Well location
references are based upon the magnetic meridian.



FILE NO: 235-36-12-19
DRAWING NO: Evans 1213 N-4H Well Plat
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY:
Submeter
PROVEN SOURCE OF ELEVATION:
CORS, Bridgeport, WV

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

DATE: November 8 20 22
OPERATOR'S WELL NO. Evans 1213 N-4H
API WELL NO
47 - 041 - 05720
STATE COUNTY PERMIT

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

LOCATION: ELEVATION: 1,227.6' WATERSHED: Middle West Fork Creek
DISTRICT: Freemans Creek

Btm: Big Isaac
Top: Camden
QUADRANGLE: 0510/2024
COUNTY: Lewis
ACREAGE: 294.00

SURFACE OWNER: James M. & Suzanne L. Evans

ROYALTY OWNER: Mary C. Burnside, et al, et al

LEASE NO: ACREAGE: 294.00

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

PLUG AND ABANDON CLEAN OUT AND REPLUG TARGET FORMATION: Marcellus Shale ESTIMATED DEPTH: 7,181' TVD 29,471' MD

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

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



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

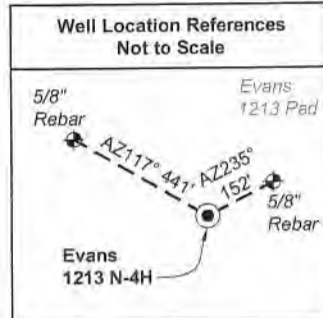
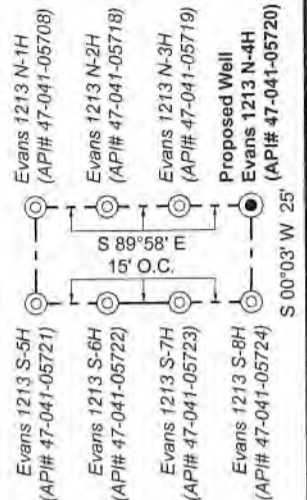
Kevin S. James
Kevin S. James, P.S. 2305

12,591' to Bottom Hole



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

Wellhead Layout (NTS)



ID	Lease
1	Carrie Dillin, et al
2	Alvadore Hughes, et al
10	W.H. Coffindaffer, et al
12	Betty A. Coffindaffer, et al
13	Robert T. Paugh, et al
15	E. Maxine Moffett, et al
20	W.T. Highland, et al
22	A.H. Reed, et al
23	A.H. Reed, et al
25	Edwin Gaston, et al
26	J.S. Norris
31	Mary C. Burnside, et al
32	Robert W. & Neva S. Coffindaffer, et al
33	Amanda Jade Welch, et al
35	Edward J. Rightmire, et al
36	Eugene Rex Curry, et al



Lewis Co. - Freeman Creek Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
1	6C / 4	Suzanne L. & James M. Evans, III	657 / 228	294.00
2	6C / 21	Clarence C. Thacker, et al	445 / 493	166.25
3	6C / 22	Mann Family Trust	617 / 608	265.19
4	6B / 11	Edward E. Garrett, et al	429 / 245	30.00
5	6B / 10	Michael Terrel Moss, et al	340 / 693	112.00
6	6B / 18	Berlin Family Irrevocable Trust	743 / 893	100.00
7	6B / 12	Edward E. Garrett, et al	429 / 245	27.75
8	6B / 14	Edward E. Garrett, et al	429 / 245	30.00
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12	6B / 21	Mark D. Roles	W50 / 769	195.91
13	6B / 2	Edward & Theresa M. Paugh (L/E)	746 / 831	78.25
14	6B / 3	Eric & Kathy Beevers	509 / 197	99.00
15	6B / 1	Edward & Theresa M. Paugh (L/E)	746 / 828	17.00
16	6B / 51	Douglas L. & Donna S. Nolan	622 / 673	5.00
17	6C / 3.2	John K. Burnside & Bertha F. Benedum	666 / 44	115.00
Harrison Co. - Union-Outside Dist.				
No.	TM / Par	Owner	Bk / Pg	Ac.
18	442 / 9.1	Jimmy L. & Ann E. Lane	1276 / 1146	0.28
19	442 / 12	Eric & Kathy Beevers	1237 / 941	30.00
20	442 / 12.1	Douglas L. & Donna S. Nolan	1414 / 1039	0.95
21	442 / 11	Douglas L. & Donna S. Nolan	1478 / 929	34.13
22	442 / 10	Mike Ross, Inc.	1590 / 158	64.53
23	422 / 34.1	Mark J. Coffindaffer, et al	W160 / 415	24.07
24	422 / 34	Terry Bostardi, et al	1617 / 374	66.56
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47 - 041 - 05720
STATE COUNTY PERMIT

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LOCATION: ELEVATION: 1,227.6' WATERSHED: Middle West Fork Creek
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ROYALTY OWNER: Mary C. Burnside, et al, et al LEASE NO: ACREAGE: 294.00

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ADDRESS: 5260 Dupont Road ADDRESS: 5260 Dupont Road
Parkersburg, WV 26101 Parkersburg, WV 26101

HG Energy II Appalachia, LLC
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Page 1 of 2

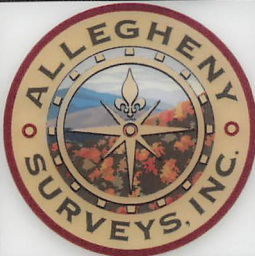
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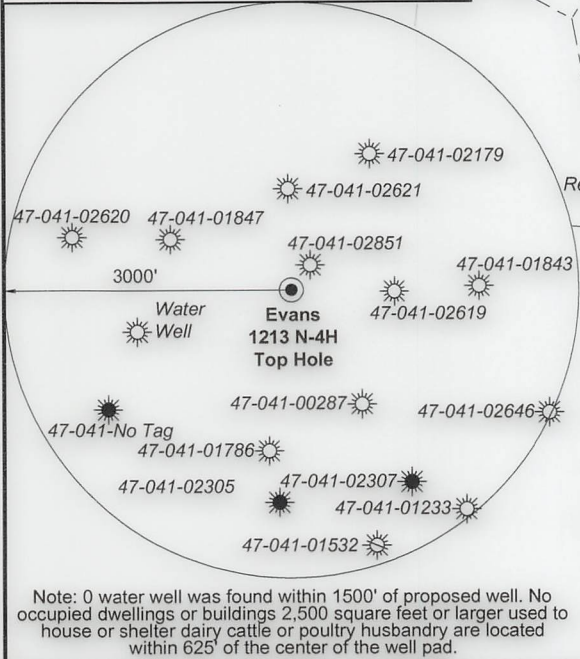
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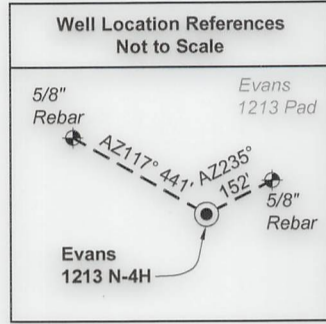
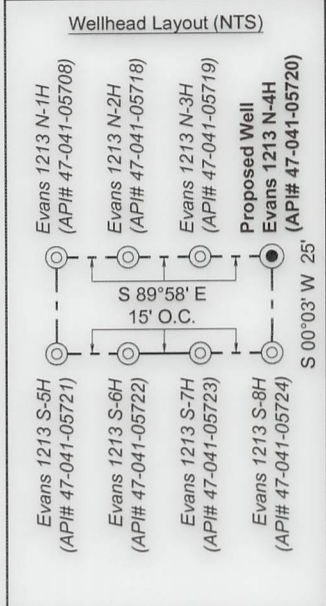
SEAL
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Kevin S. James
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12,591' to Bottom Hole



Legend

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