

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

API 47-033-05925 County Harrison District Union  
Quad West Milford, WV 7.5' Pad Name Stickel 1210 Field/Pool Name Fink Kennedy  
Farm name Stickel Well Number Stickel 1210 S-1H  
Operator (as registered with the OOG) HG Energy II Appalachia, 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 4332716.044 Easting 546668.470  
Landing Point of Curve Northing 4332414.100 Easting 545880.100  
Bottom Hole Northing 4328385.300 Easting 547294.000

Elevation (ft) 994' 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/Mud/OBM  
KCL, Barite, Lime, CaCL, base oil, clay, sulfatone, safevert FLG, safevert WA

Date permit issued 10/25/2018 Date drilling commenced 12/29/2018 Date drilling ceased 9/22/2019  
Date completion activities began 10/2/2019 Date completion activities ceased 2/22/2020  
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 80', 310' 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 100', 450', 480' Cavern(s) encountered (Y/N) depths N  
Is coal being mined in area (Y/N) N

Reviewed by:  
SPW 10/19/2020

API 47-033 - 05925 Farm name Stickel Well number Stickel 1210 S-1H

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"	75'	New	154.5 lbs/ft		N
Surface	26"	20"	503'	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	1764	New	68 lbs/ft J-55		Yes
Intermediate 2	12.25"	9.625"	2535'	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5	5.5	21663'	New	23 lbs/ft P-11C		Yes
Tubing	5.5"	2.875"	7675.94	New	5 lbs/ft J-55 EL		No
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	Drilled in						
Surface	Class A	1080	15.6	1.2	1297	surface	8
Coal							
Intermediate 1	Class A	1157/440	15.4/15.9	1.23/1.17	1420.5/516.5	Surface	24
Intermediate 2	Class A	830	15.6	1.19	988	Surface	8
Intermediate 3							
Production	Class A	1310/3250	14.5/14.8	1.29/1.33	1577/4354	Surface	8
Tubing	Not cemented						

Drillers TD (ft) 21692 Loggers TD (ft) \_\_\_\_\_  
 Deepest formation penetrated Marcellus Plug back to (ft) \_\_\_\_\_  
 Plug back procedure \_\_\_\_\_

Kick off depth (ft) 6500' TVD

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**  
**Stickel 1210 S-1H**  
**Lithology/Formation Information**

<b>Formation</b>	<b>Top Depth TMD</b>	<b>Top Depth TVD</b>	<b>Bottom Depth TMD</b>	<b>Bottom Depth TVD</b>	<b>Rock Type, Type of Fluid, Gas, Oil</b>	<b>Oil, Gas, Water</b>
Water shows	80	80	90	90	1" stream	Fresh Water
Water shows	310	310	315	315	1/4" stream	Fresh Water
Coals	100, 450, 480		102,455,485		Coal	
Greenbrier Big Lime	1172	1172	1272	1272	Limestone	
Pocono Big Injun	1272	1272	1350	1350	Sandstone	
Gantz	1538	1538	1600	1600	Sandstone/ Siltstone	
Fifty foot Sand	1648	1648	1700	1700	Sandstone	
Thirty foot Sand	1738	1731	1744	1744	Sandstone	
Gordon Stray sand	1785	1785	1828	1828	Sandstone	
Gordon sand	1851	1851	1928	1928	Sandstone	
5th sand	2035	2034	2065	2064	Sandstone	
Bayard sand	2129	2128	2147	2146	Sandstone	
Speechley	2745	2744	2763	2762	Sandstone/Siltstone	
Balltown	2965	2964	3005	3004	siltstone/Shale	
Benson	4138	4045	4365	4078	Sandstone	
Rhinestreet	6398	5640	6763	5933	Shale	
Cashaqua	6763	5933	7023	6133	shale	
Middlesex	7023	6133	7141	6220	shale	
West River	7141	6220	7293	6321	shale	
Burket	7293	6321	7342	6349	shale	
Tully	7342	6349	7513	6439	Limestone	
Hamilton	7513	6439	7664	6500	shale	
Marcellus shale	7664	6500	21692	6713	shale	

**HG Energy II Appalachia, LLC  
Stickel 1210 S-1H  
Perforation Record**

<b>Stage #</b>	<b>Perforation Date</b>	<b>Perforation From Depth</b>	<b>Perforation To Depth</b>	<b>Number of Perforations</b>	<b>Formation</b>
Sleeve / 1	11/26/2019	21554	21507	Sleeves	Marcellus
2	11/26/2019	21,473	21,305	49	Marcellus
3	11/27/2019	21,277	21,109	49	Marcellus
4	11/27/2019	21,081	20,913	49	Marcellus
5	11/27/2019	20,885	20,717	49	Marcellus
6	11/28/2019	20,689	20,521	49	Marcellus
7	11/28/2019	20,493	20,325	49	Marcellus
8	11/28/2019	20,297	20,129	49	Marcellus
9	11/29/2019	20,101	19,933	49	Marcellus
10	11/29/2019	19,905	19,737	49	Marcellus
11	11/29/2019	19,709	19,541	49	Marcellus
12	11/30/2019	19,513	19,345	49	Marcellus
13	11/30/2019	19,317	19,149	49	Marcellus
14	12/1/2019	19,121	18,953	49	Marcellus
15	12/1/2019	18,925	18,757	49	Marcellus
16	12/2/2019	18,729	18,561	49	Marcellus
17	12/2/2019	18,533	18,365	49	Marcellus
18	12/2/2019	18,337	18,169	49	Marcellus
19	12/2/2019	18,141	17,973	49	Marcellus
20	12/3/2019	17,945	17,777	49	Marcellus
21	12/3/2019	17,749	17,581	49	Marcellus
22	12/3/2019	17,553	17,385	49	Marcellus
23	12/4/2019	17,357	17,189	49	Marcellus
24	12/4/2019	17,161	16,993	49	Marcellus
25	12/4/2019	16,965	16,797	49	Marcellus
26	12/5/2019	16,769	16,601	49	Marcellus
27	12/5/2019	16,573	16,405	49	Marcellus
28	12/5/2019	16,377	16,209	49	Marcellus
29	12/6/2019	16,181	16,013	49	Marcellus
30	12/6/2019	15,985	15,817	49	Marcellus
31	12/6/2019	15,789	15,621	49	Marcellus
32	12/7/2019	15,593	15,425	49	Marcellus
33	12/7/2019	15,397	15,229	49	Marcellus
34	12/7/2019	15,201	15,033	49	Marcellus
35	12/7/2019	15,005	14,837	49	Marcellus
36	12/8/2019	14,809	14,641	49	Marcellus
37	12/8/2019	14,613	14,445	49	Marcellus
38	12/9/2019	14,416	14,248	49	Marcellus
39	12/9/2019	14,218	14,050	49	Marcellus
40	12/9/2019	14,020	13,852	49	Marcellus
41	12/9/2019	13,822	13,654	49	Marcellus
42	12/10/2019	13,624	13,456	49	Marcellus
43	12/10/2019	13,426	13,258	49	Marcellus
44	12/10/2019	13,228	13,060	49	Marcellus
45	12/11/2019	13,030	12,862	49	Marcellus
46	12/11/2019	12,832	12,664	49	Marcellus
47	12/11/2019	12,634	12,466	49	Marcellus
48	12/12/2019	12,436	12,268	49	Marcellus
49	12/12/2019	12,238	12,070	49	Marcellus
50	12/12/2019	12,040	11,872	49	Marcellus
51	12/13/2019	11,842	11,674	49	Marcellus
52	12/13/2019	11,644	11,476	49	Marcellus
53	12/13/2019	11,446	11,278	49	Marcellus
54	12/14/2019	11,248	11,080	49	Marcellus
55	12/14/2019	11,050	10,882	49	Marcellus
56	12/14/2019	10,852	10,684	49	Marcellus
57	12/15/2019	10,654	10,486	49	Marcellus
58	12/15/2019	10,456	10,288	49	Marcellus
59	12/15/2019	10,258	10,090	49	Marcellus
60	12/15/2019	10,060	9,892	49	Marcellus
61	12/16/2019	9,862	9,694	49	Marcellus
62	12/16/2019	9,664	9,496	49	Marcellus
63	12/16/2019	9,466	9,298	49	Marcellus
64	12/17/2019	9,268	9,100	49	Marcellus
65	12/17/2019	9070	8902	49	Marcellus
66	12/17/2019	8872	8704	49	Marcellus
67	12/18/2019	8674	8506	49	Marcellus
68	12/18/2019	8476	8308	49	Marcellus
69	12/18/2019	8278	8110	49	Marcellus
70	12/19/2019	8080	7912	49	Marcellus
71	12/19/2019	7882	7714	49	Marcellus

**HG Energy II Appalachia, LLC**  
**Stickel 1210 S-1H**  
**Stimulation Record**

Stage #	Date	Average Pump Rate (BPM)	Average Treatment Pressure (PSI)	Maximum Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve / 1	11/26/2019	87.2	9826	10847	3960	267500	7510
2	11/26/2019	88.8	9,759	10,892	4,405	470,400	10,674
3	11/27/2019	86.4	9,773	10,395	5,052	487,900	10,879
4	11/27/2019	85.5	9,663	10,653	4,412	577,300	11,728
5	11/27/2019	83.2	9,600	10,521	4,780	519,800	10,792
6	11/28/2019	86.5	9,636	10,525	5,257	578,300	11,676
7	11/28/2019	88.1	9,366	9,975	4,831	519,200	12,258
8	11/28/2019	82.1	9,904	10,654	4,730	577,100	13,242
9	11/29/2019	87.5	9,710	10,354	4,548	442,000	10,400
10	11/29/2019	85.0	9,377	10,392	4,690	577,800	13,001
11	11/29/2019	84.0	9,290	9,785	5,240	577,900	11,681
12	11/30/2019	88.7	9,769	10,395	5,210	577,500	11,755
13	11/30/2019	85.3	9,184	10,078	5,080	574,700	11,711
14	12/1/2019	87.0	9,529	9,914	5,140	577,200	11,163
15	12/1/2019	87.2	9,740	10,533	4,740	568,700	11,448
16	12/2/2019	84.0	9,494	10,497	5,060	591,300	11,291
17	12/2/2019	86.0	9,799	10,934	4,520	502,000	10,692
18	12/2/2019	86.4	9,518	10,635	4,540	594,300	11,536
19	12/2/2019	86.0	9,185	10,974	4,485	558,000	11,058
20	12/3/2019	85.7	9,357	10,537	5,050	313,900	9,379
21	12/3/2019	87.1	9,036	9,868	4,710	486,200	10,529
22	12/3/2019	86.4	8,814	9,349	4,740	593,200	11,276
23	12/4/2019	88.9	9,257	9,618	4,718	589,000	11,285
24	12/4/2019	87.6	9,420	10,523	4,880	595,300	11,398
25	12/4/2019	92.6	9,515	9,909	5,300	594,560	11,610
26	12/5/2019	87.5	9,272	9,656	5,340	570,000	11,368
27	12/5/2019	91.8	9,386	10,256	4,866	589,900	11,257
28	12/5/2019	90.1	9,532	9,939	5,160	593,040	11,298
29	12/6/2019	88.1	9,428	10,235	5,124	596,520	11,438
30	12/6/2019	88.5	9,709	10,618	5,280	240,600	8,236
31	12/6/2019	86.2	9,593	11,358	4,823	257,200	7,924
32	12/7/2019	84.7	8,924	9,879	5,460	518,420	10,629
33	12/7/2019	80.4	8,777	10,067	5,080	502,100	10,799
34	12/7/2019	83.7	9,181	10,423	4,845	549,500	12,712
35	12/7/2019	57.0	8,356	12,185	6,254	209,420	8,453
36	12/8/2019	89.6	9,023	10,913	4,720	450,700	10,951
37	12/8/2019	89.1	8,811	9,271	5,047	600,920	11,779
38	12/9/2019	92.5	8,748	9,333	5,040	605,100	11,909
39	12/9/2019	90.9	8,737	9,504	5,565	599,600	11,891
40	12/9/2019	95.8	9,141	9,409	5,960	601,300	11,850
41	12/9/2019	94.4	9,052	10,563	5,350	527,580	11,205
42	12/10/2019	89.4	8,980	9,431	5,912	526,100	10,387
43	12/10/2019	91.3	9,306	10,253	5,190	533,300	11,105
44	12/10/2019	91.6	8,730	9,473	6,170	577,240	12,891
45	12/11/2019	94.3	8,978	9,332	4,803	610,020	13,238
46	12/11/2019	88.7	8,699	9,264	4,740	555,600	11,700
47	12/11/2019	94.4	8,822	9,731	4,490	599,380	11,822
48	12/12/2019	96.8	8,970	9,342	5,120	609,940	13,080
49	12/12/2019	91.2	8,985	10,060	4,820	599,800	12,839
50	12/12/2019	92.9	8,776	9,979	6,014	597,160	11,570
51	12/13/2019	92.6	8,880	9,897	5,731	608,140	11,463
52	12/13/2019	93.6	9,190	9,718	4,659	608,400	12,760
53	12/13/2019	92.8	8,798	9,424	5,460	521,200	10,733
54	12/14/2019	93.8	8,668	9,073	5,550	599,580	11,312
55	12/14/2019	91.3	8,577	9,472	5,334	578,040	12,815
56	12/14/2019	94.1	8,570	9,116	5,720	608,400	11,622
57	12/15/2019	93.7	8,509	8,768	4,973	608,640	11,508
58	12/15/2019	92.8	8,239	9,041	5,010	608,760	12,521
59	12/15/2019	94	8,296	9,186	5,110	608,440	11,437
60	12/15/2019	94.6	8,211	8,747	5,990	533,200	10,847
61	12/16/2019	94.6	8,249	8,797	5,600	533,280	10,852
62	12/16/2019	94.4	8,368	9,977	5,720	610,740	11,431
63	12/16/2019	91	8,936	10,277	5,413	259,650	8,912
64	12/17/2019	94.4	8,679	9,495	4,675	607,160	12,692
65	12/17/2019	94.6	8,626	9,404	4,580	602,160	11,325
66	12/17/2019	94.8	8,445	9,196	4,840	608,500	14,237
67	12/18/2019	92.6	8,380	9,221	4,610	605,620	12,064
68	12/18/2019	94.1	8,301	9,034	5,080	606,400	13,387
69	12/18/2019	93.3	8,153	10,797	5,600	603,080	11,714
70	12/19/2019	92.9	8,230	8,687	4,555	567,560	11,782
71	12/19/2019	92.6	8,146	8,906	4,808	604,260	12,254

BHL is located on topo map 7,896 feet south of Latitude: 39°07'30"  
 SHL is located on topo map 8,845 feet south of Latitude: 39°10'00"

**SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL**

BHL is located on topo map 10,324 feet west of Longitude: 80°25'00"  
 SHL is located on topo map 464 feet west of Longitude: 80°22'30"

	LESSOR	DIST-TM/PAR
A	A. W. RHODES ET UX	20-444/19.2
B	W. E. BEEGHLEY ET AL	3-7B/23
C	WILLIAM BEEGHLEY ET UX	
D	ARTHUR D. BEEGHLEY ET UX	
C/D	ARTHUR D. BEEGHLEY ET UX	
E	JAMES M. BEEGHLEY ET UX	
F	GEORGE W. NEELY ET AL	3-7B/22
		3-7B/21
G	LLOYD BEEGHLEY ET AL	3-7B/20
H	MAUDIE BARB ET AL	3-7B/17
		3-7B/18
J	JOHN S. BARB ET UX	3-7C/61
K	C. W. SMITH & ET AL	3-7C/57.4
		3-7C/57
L	E. C. STROTHER & ET AL	3-7C/66.1
M	N. L. ALLMAN ET VIR	3-1/69
N	DOMINION ENERGY TRANSMISSION, INC. TO HG ENERGY, LLC	3-1/37
		3-1/38
		3-1/64
		3-1/60
		3-1/63
		3-1/69
		3-1/71
		3-1/74

	SURFACE OWNER	DIST-TM/PAR
1	DANNY LEE & ALICIA A. STICKEL	20-444/19.2
2	ATLANTIC COAST PIPELINE, LLC	3-7B/23
3	CNX GAS COMPANY, LLC	3-7B/22
4	JOHN J. OLDAKER, JR.	3-7B/21
5	JOHN J. OLDAKER, JR.	3-7B/20
6	JOHN J. OLDAKER, JR.	3-7B/17
7	JOHN J. OLDAKER, JR.	3-7B/18
8	LYNWOOD L. & DONNA S. WOLFE	3-7C/61
9	*MARY JANE BAILEY	3-7C/35
10	LYNWOOD L. WOLFE	3-7C/57.2
11	LYNWOOD L. WOLFE	3-7C/57.1
12	LYNWOOD L. & DONNA S. WOLFE	3-7C/57.4
13	*WOLFE PAVING INCORPORATED	3-7C/57.3
14	JERRY L. WOLFE	3-7C/57
15	JOSHUA V. & MARSHA T. GARTON	3-7C/66.1
16	*JOHN RUSSELL & BLANCHE DARLENE MARSH	3-1/37
17	KEVIN S. ROSS	3-1/38
18	ROSE MARY JACKSON (LIFE)	3-1/64
19	ROSE MARY JACKSON	3-1/60
20	GALE BROWN (LIFE)	3-1/63
21	JEREMY & ANNIE J. BROWN	3-1/69
22	SHELBA JEAN SMITH	3-1/71
23	JOSHUA V. GARTON & MARSHA TAYLOR	3-1/74

AS DRILLED  
 SURFACE HOLE LOCATION (SHL)  
 UTM 17-NAD83  
 N:4332716.044  
 E:546668.470  
 NAD27 WV NORTH  
 N:235391.208  
 E:1727669.464  
 LAT/LON DATUM-NAD83  
 LAT:39.142383  
 LON:-80.459969



AS DRILLED  
 APPROX. LANDING POINT  
 UTM 17-NAD83  
 N:4332414.100  
 E:545880.100  
 NAD27 WV NORTH  
 N:234443.300  
 E:1725065.800  
 LAT/LON DATUM-NAD83  
 LAT:39.139704  
 LON:-80.469113

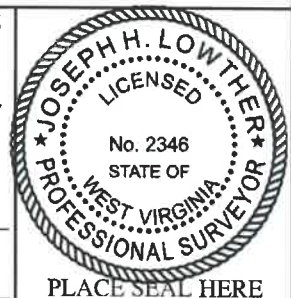


AS DRILLED  
 BOTTOM HOLE LOCATION (BHL)  
 UTM 17-NAD83  
 N:4328385.300  
 E:547294.000  
 NAD27 WV NORTH  
 N:221145.400  
 E:1729485.400  
 LAT/LON DATUM-NAD83  
 LAT:39.103326  
 LON:-80.453034

\* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

FILE #: \_\_\_\_\_  
 DRAWING #: \_\_\_\_\_  
 SCALE: \_\_\_\_\_  
 MINIMUM DEGREE OF ACCURACY: \_\_\_\_\_  
 PROVEN SOURCE OF ELEVATION: \_\_\_\_\_

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.  
 Signed: \_\_\_\_\_  
 R.P.E.: \_\_\_\_\_ L.L.S.: P.S. No. 2346



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS WVDEP  
 OFFICE OF OIL & GAS  
 601 57TH STREET  
 CHARLESTON, WV 25304



DATE: \_\_\_\_\_  
 OPERATOR'S WELL #: \_\_\_\_\_  
 API WELL #: \_\_\_\_\_

Well Type:  Oil  Waste Disposal  Production  Deep  
 Gas  Liquid Injection  Storage  Shallow

WATERSHED: \_\_\_\_\_ ELEVATION: \_\_\_\_\_

COUNTY/DISTRICT: \_\_\_\_\_ QUADRANGLE: \_\_\_\_\_

SURFACE OWNER: \_\_\_\_\_ ACREAGE: \_\_\_\_\_

OIL & GAS ROYALTY OWNER: \_\_\_\_\_ ACREAGE: \_\_\_\_\_

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE   
 PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON   
 CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

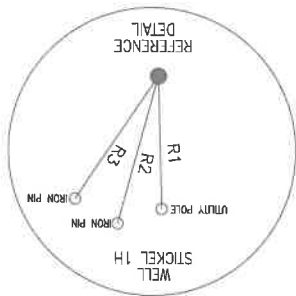
TARGET FORMATION: \_\_\_\_\_ ESTIMATED DEPTH: \_\_\_\_\_

WELL OPERATOR \_\_\_\_\_ DESIGNATED AGENT \_\_\_\_\_  
 Address \_\_\_\_\_ Address \_\_\_\_\_  
 City \_\_\_\_\_ State \_\_\_\_\_ Zip Code \_\_\_\_\_

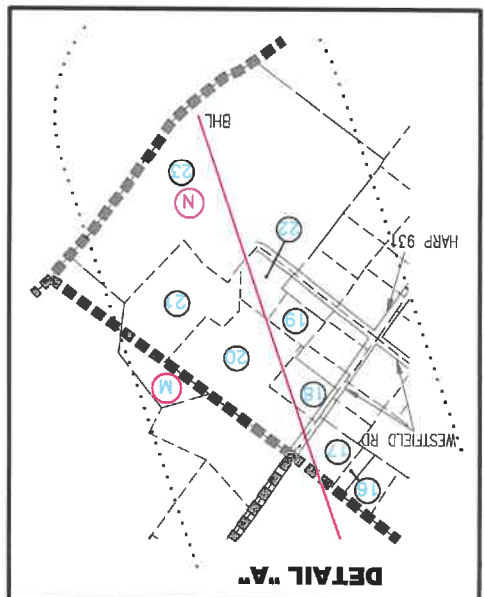
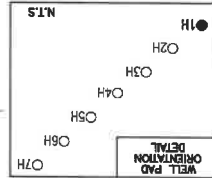




LINE	BEARING	DISTANCE
R1	N 01°34'14" W	226.24'
R2	N 15°28'50" E	260.23'
R3	N 34°08'43" E	252.76'
R4	S 89°44'58" W	1000.47'
R5	S 06°14'39" E	1249.35'
R6	S 65°18'00" E	769.65'



- NOTES:
1. There are no water wells or developed springs within 250' of proposed well.
  2. There are no existing buildings within 625' of proposed well.
  3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
  4. There are no native trout streams within 300' of proposed well.
  5. Proposed well is greater than 1000' from surface groundwater intake or public water supply.
  6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the surface or mineral parcels are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.



**AS DRILLED**  
**1H**  
**STICKEL**  
**PLAT**



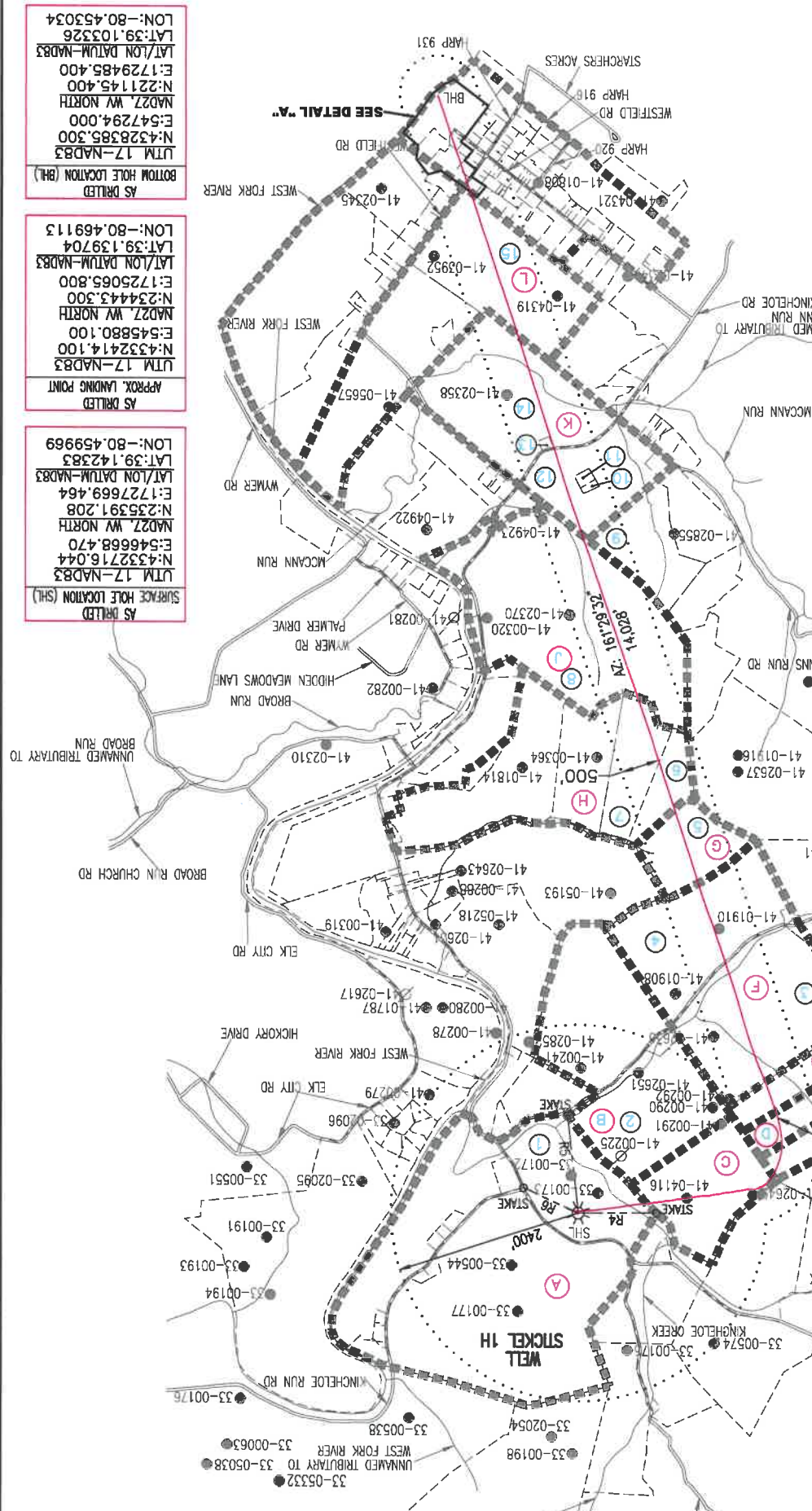
LEGEND

TOPO MAP POINT	+
WELL	☼
ALL ARE POINTS UNLESS OTHERWISE NOTED.	○
BOUNDARY	- - - - -
MINERAL TRACT	- - - - -
LESSORS	○
LESSORS	○
SURFACE OWNERS	○
PARCEL LINES	- - - - -
LEASE BOUNDARY	- - - - -
WELL REFERENCE	- - - - -
AS-DRILLED	—
ROAD	—
STREAM CENTER LINE	—
WELLS WITHIN 2400'	●
EXISTING WELLS	●
PLUGGED WELLS	●
ABANDONED WELLS	●

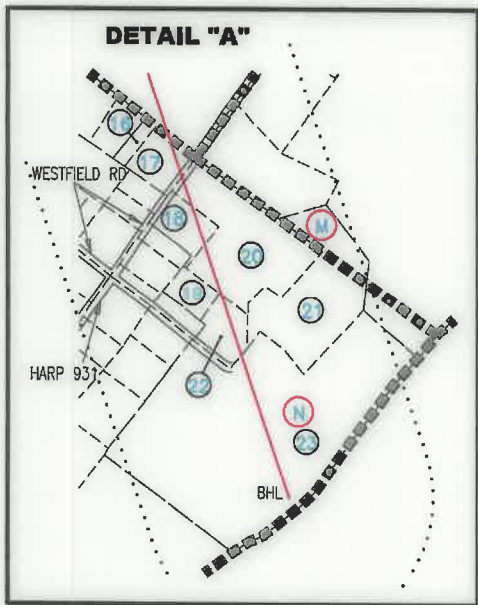
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N:4328385.300  
E:547294.000  
MAD27, W. NORTH  
N:221145.400  
E:1729485.400  
LAT/LON DATUM-NAD83  
LAT:39.103326  
LON:-80.453034

UTM 17-NAD83  
N:4332414.100  
E:545880.100  
MAD27, W. NORTH  
N:234443.300  
E:1725065.800  
LAT/LON DATUM-NAD83  
LAT:39.139704  
LON:-80.469113

UTM 17-NAD83  
N:4332716.044  
E:546668.470  
MAD27, W. NORTH  
N:235391.208  
E:1727669.464  
LAT/LON DATUM-NAD83  
LAT:39.142383  
LON:-80.459969



# AS DRILLED STICKEL PLAT 1H PAGE 2 OF 2

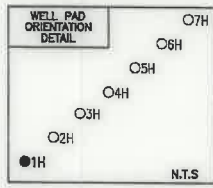
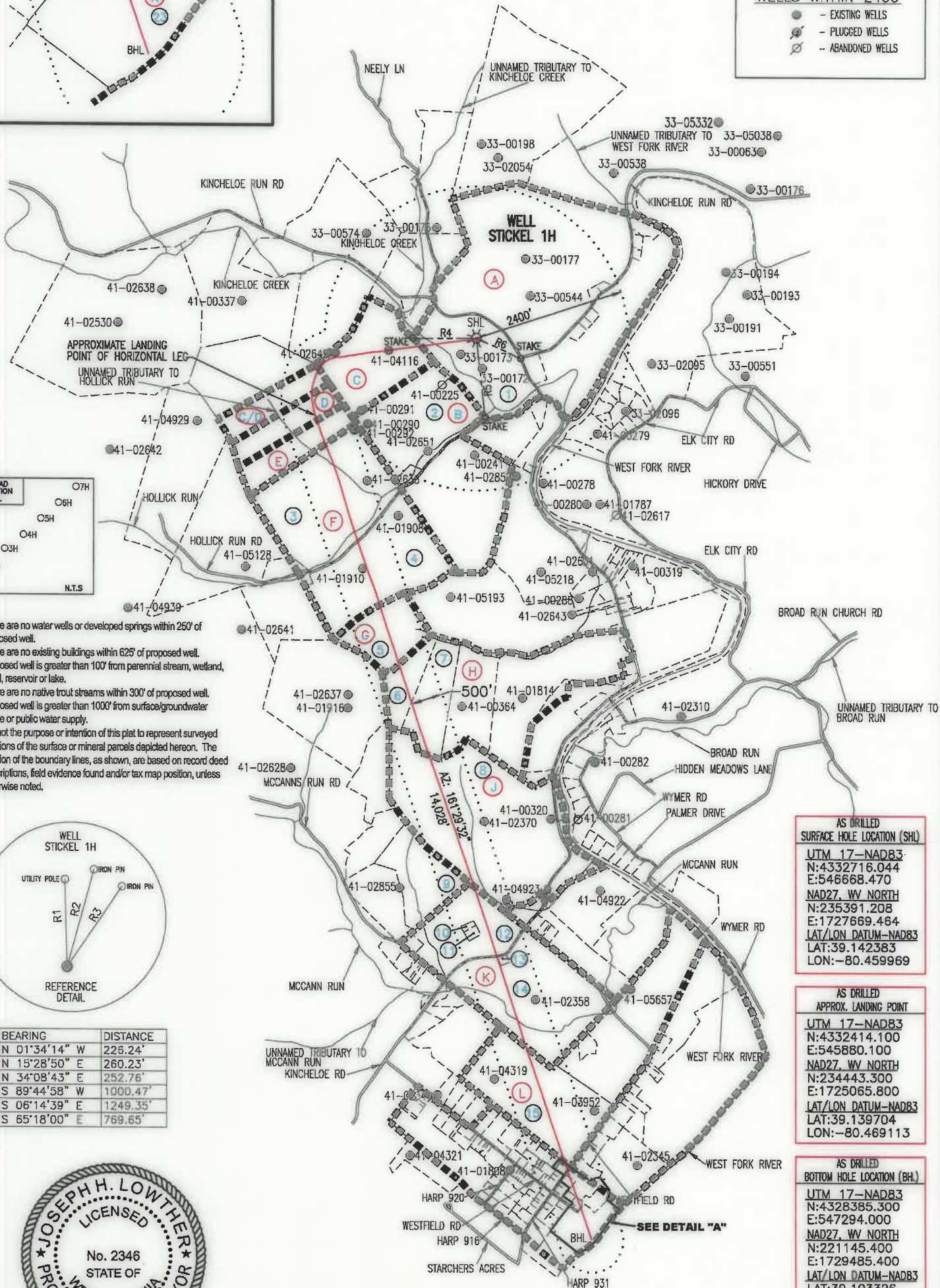


### LEGEND

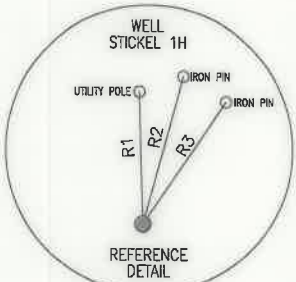
- TOPO MAP POINT
- WELL
- ALL ARE POINTS UNLESS OTHERWISE NOTED.
- MINERAL TRACT BOUNDARY
- LESSORS
- SURFACE OWNERS
- PARCEL LINES
- LEASE BOUNDARY
- WELL REFERENCE
- AS-DRILLED
- ROAD
- STREAM CENTER LINE

**WELLS WITHIN 2400'**

- EXISTING WELLS
- PLUGGED WELLS
- ABANDONED WELLS



- NOTES:**
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  3. Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
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  5. Proposed well is greater than 1000' from surface/groundwater intake or public water supply.
  6. It is not the purpose or intention of this plat to represent surveyed locations of the surface or mineral parcels depicted hereon. The location of the boundary lines, as shown, are based on record deed descriptions, field evidence found and/or tax map position, unless otherwise noted.



LINE	BEARING	DISTANCE
R1	N 01°34'14" W	226.24'
R2	N 15°28'50" E	260.23'
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R5	S 06°14'39" E	1249.35'
R6	S 65°18'00" E	769.65'

**AS DRILLED  
SURFACE HOLE LOCATION (SHL)**

UTM 17-NAD83  
 N:4332716.044  
 E:546668.470  
 NAD27, WV NORTH  
 N:235391.208  
 E:1727669.464  
 LAT/LON DATUM-NAD83  
 LAT:39.142383  
 LON:-80.459969

**AS DRILLED  
APPROX. LANDING POINT**

UTM 17-NAD83  
 N:4332414.100  
 E:545880.100  
 NAD27, WV NORTH  
 N:234443.300  
 E:1725065.800  
 LAT/LON DATUM-NAD83  
 LAT:39.139704  
 LON:-80.469113

**AS DRILLED  
BOTTOM HOLE LOCATION (BHL)**

UTM 17-NAD83  
 N:4328385.300  
 E:547294.000  
 NAD27, WV NORTH  
 N:221145.400  
 E:1729485.400  
 LAT/LON DATUM-NAD83  
 LAT:39.103326  
 LON:-80.453034



**APRIL 30, 2020**



