

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

API 47 - 033 - 05927 County Harrison District Union/Freeman's Creek
Quad West Milford, WV 7.5' Pad Name Stickel 1210 Field/Pool Name Fink Kennedy
Farm name Stickel Well Number Stickel 1210 S-4H
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 4332725.044 Easting 546678.977
Landing Point of Curve Northing 4332529.628 Easting 546820.188
Bottom Hole Northing 4329138.242 Easting 547977.815

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 12/25/2018 Date drilling ceased 8/28/2019
Date completion activities began 9/30/2019 Date completion activities ceased 2/23/2020
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', 315' 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:
S.D.W. 10/14/2020

API 47-033 - 05927 Farm name Stickel Well number Stickel 1210 S-4H

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"	77'	New	154.5 lbs/ft		N
Surface	26"	20"	500	New	94 lbs/ft J-55		Yes
Coal							
Intermediate 1	17.5"	13.375"	1773	New	68 lbs/ft J-55		Yes
Intermediate 2	12.25"	9.625"	2539	New	40 lbs/ft J-55		Yes
Intermediate 3							
Production	8.5	5.5	18431	New	23 lbs/ft P-11C		Yes
Tubing	5.5"	2.875"	6699.97	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 ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	Drilled in						
Surface	Class A	985	15.6	1.2	1179	surface	8
Coal							
Intermediate 1	Class A	1186/523	15.4/15.9	1.23/1.17	1460/612	Surface	24
Intermediate 2	Class A	815	15.6	1.19	965.7	Surface	8
Intermediate 3							
Production	Class A	1223/2452	14.5/14.8	1.29/1.33	1577/3262	Surface	8
Tubing	Not cemented						

Drillers TD (ft) 18459' Loggers TD (ft) _____
 Deepest formation penetrated Marcellus Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) 6499'

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 _____

API 47- 033_05927 Farm name Stickel Well number Stickel 1210 S-4H

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Marcellus</u>	<u>6499-6755</u> TVD	<u>6675-18459</u> MD
_____	_____	_____
_____	_____	_____
_____	_____	_____

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

Please insert additional pages as applicable.

Drilling Contractor Patterson Drilling
 Address 2198 University Drive City Lemont Furnace State PA Zip 15456

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 Stingray
 Address 14201 Caliber Dr City Oklahoma City State OK Zip 73134

Please insert additional pages as applicable.

Completed by Diane White Telephone 304-420-1119
 Signature Diane White Title _____ Date 7/29/2020

HG Energy II Appalachia, LLC
Stickel 1210 S-4H
Lithology/Formation Information

Formation	Top Depth TMD	Top Depth TVD	Bottom Depth TMD	Bottom Depth TVD	Rock Type, Type of Fluid, Gas, Oil	Oil, Gas, Water
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			
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	4080	4078	Sandstone	
Rhinestreet	5704	5648	6007	5940	Shale	
Cashaqua	6007	5940	6208	6129	shale	
Middlesex	6208	6129	6297	6210	shale	
West River	6297	6210	6409	6309	shale	
Burket	6409	6309	6450	6344	shale	
Tully	6450	6344	6570	6435	Limestone	
Hamilton	6570	6435	6675	6499	shale	
Marcellus shale	6675	6499	18459	6755	shale	

HG Energy II Appalachia, LLC

Stickel 1210 S-4H

Perforation Record

Stage #	Date	Perforation from Depth	Perforation to Depth	Number of Perforations	Formation
Sleeve / 1	11/20/2019	18325	18277	2	Marcellus
2	11/20/2019	18,241	18,073	49	Marcellus
3	11/21/2019	18,041	17,873	49	Marcellus
4	11/21/2019	17,841	17,673	49	Marcellus
5	11/21/2019	17,641	17,473	49	Marcellus
6	11/22/2019	17,441	17,273	49	Marcellus
7	11/22/2019	17,241	17,073	49	Marcellus
8	11/22/2019	17,041	16,873	49	Marcellus
9	11/23/2019	16,841	16,673	49	Marcellus
10	11/23/2019	16,641	16,473	49	Marcellus
11	11/24/2019	16,440	16,272	49	Marcellus
12	11/24/2019	16,238	16,070	49	Marcellus
13	11/24/2019	16,036	15,868	49	Marcellus
14	11/25/2019	15,834	15,666	49	Marcellus
15	11/25/2019	15,431	15,269	49	Marcellus
16	11/25/2019	15,237	15,075	49	Marcellus
17	11/26/2019	15,043	14,881	49	Marcellus
18	11/26/2019	14,849	14,687	49	Marcellus
19	11/27/2019	14,655	14,493	49	Marcellus
20	11/27/2019	14,461	14,299	49	Marcellus
21	11/28/2019	14,267	14,105	49	Marcellus
22	11/28/2019	14,073	13,911	49	Marcellus
23	11/28/2019	13,879	13,717	49	Marcellus
24	11/28/2019	13,685	13,523	49	Marcellus
25	11/29/2019	13,491	13,329	49	Marcellus
26	1/9/2020	13,297	13,135	49	Marcellus
27	1/9/2020	13,103	12,941	49	Marcellus
28	1/9/2020	12,909	12,747	49	Marcellus
29	1/10/2020	12,715	12,553	49	Marcellus
30	1/10/2020	12,521	12,359	48	Marcellus
31	1/10/2020	12,327	12,165	48	Marcellus
32	1/11/2020	12,133	11,971	48	Marcellus
33	1/11/2020	11,939	11,777	48	Marcellus
34	1/11/2020	11,745	11,583	48	Marcellus
35	1/11/2020	11,551	11,389	48	Marcellus
36	1/12/2020	11,357	11,195	48	Marcellus
37	1/12/2020	11,163	11,001	48	Marcellus
38	1/12/2020	10,969	10,807	48	Marcellus
39	1/12/2020	10,775	10,613	48	Marcellus
40	1/13/2020	10,581	10,419	48	Marcellus
41	1/13/2020	10,387	10,225	48	Marcellus
42	1/13/2020	10,193	10,031	48	Marcellus
43	1/14/2020	9,999	9,837	48	Marcellus
44	1/14/2020	9,805	9,643	48	Marcellus
45	1/14/2020	9,611	9,449	48	Marcellus
46	1/14/2020	9,417	9,255	48	Marcellus
47	1/15/2020	9,223	9,061	47	Marcellus
48	1/15/2020	9,029	8,867	47	Marcellus
49	1/15/2020	8,835	8,673	47	Marcellus
50	1/16/2020	8,641	8,479	47	Marcellus
51	1/16/2020	8,447	8,285	47	Marcellus
52	1/16/2020	8,253	8,091	47	Marcellus
53	1/16/2020	8,059	7,897	47	Marcellus
54	1/17/2020	7,865	7,703	47	Marcellus
55	1/17/2020	7,671	7,509	47	Marcellus
56	1/17/2020	7,477	7,315	47	Marcellus
57	1/18/2020	7,283	7,121	47	Marcellus
58	1/18/2020	7,089	6,927	47	Marcellus
59	1/18/2020	6,895	6,733	47	Marcellus
KP	1/19/2020				

HG Energy II Appalachia, LLC

Stickel 1210 S-4H

Stimulation Record

Stage #	Date	Average Pump Rate (BPM)	Average Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Proppant (LBS)	Water (BBLs)
Sleeve / 1	11/20/2019	68.5	8712	10515	3882	195980	6247
2	11/20/2019	81.3	9,181	9,590	4,801	337,960	9,269
3	11/21/2019	77.4	8,508	8,846	4,621	537,960	11,720
4	11/21/2019	77.5	8,522	8,838	4,950	557,740	11,552
5	11/21/2019	78.8	8,668	9,826	5,025	383,380	9,692
6	11/22/2019	78.8	8,443	8,870	4,460	577,100	11,837
7	11/22/2019	79.1	8,607	8,990	4,380	577,220	11,726
8	11/22/2019	84.4	8,665	9,272	4,925	577,460	11,944
9	11/23/2019	84.0	8,800	9,250	4,820	573,340	11,710
10	11/23/2019	84.0	8,817	9,134	4,850	384,940	10,504
11	11/24/2019	84.3	8,798	9,280	4,920	573,620	11,602
12	11/24/2019	82.1	8,661	9,144	4,900	556,040	11,363
13	11/24/2019	85.4	9,057	9,693	4,940	577,220	11,069
14	11/25/2019	83.7	9,556	10,062	5,260	577,140	12,817
15	11/25/2019	79.6	8,911	10,002	5,334	556,050	10,482
16	11/25/2019	77.4	8,916	9,961	4,520	580,040	13,949
17	11/26/2019	92.1	9,590	10,490	4,914	543,160	10,783
18	11/26/2019	88.8	9,423	9,827	5,329	577,400	12,639
19	11/27/2019	89.0	9,290	9,778	4,480	554,580	12,349
20	11/27/2019	92.3	9,463	9,957	5,857	599,420	11,453
21	11/28/2019	89.6	9,424	10,177	5,280	599,720	11,370
22	11/28/2019	93.7	9,564	10,120	5,874	544,640	12,388
23	11/28/2019	91.1	9,007	9,913	5,182	600,700	11,329
24	11/28/2019	90.6	9,331	10,313	5,120	604,440	12,287
25	11/29/2019	93.2	9,738	11,024	10,548	585,760	11,724
26	1/9/2020	92.1	9,345	10,401	5,004	580,740	10,785
27	1/9/2020	92.6	9,493	10,332	5,178	600,800	10,982
28	1/9/2020	91.6	9,169	9,857	5,170	600,960	11,632
29	1/10/2020	91.6	8,777	9,555	5,331	600,810	11,764
30	1/10/2020	92.6	9,153	9,676	5,143	600,940	12,301
31	1/10/2020	93.9	9,139	9,977	5,073	608,300	10,879
32	1/11/2020	93.0	8,770	9,400	5,175	601,300	10,837
33	1/11/2020	92.3	8,731	9,553	5,480	577,560	10,835
34	1/11/2020	94.1	8,634	9,514	5,313	571,840	10,823
35	1/11/2020	94.4	8,365	9,146	5,635	571,320	10,020
36	1/12/2020	94.8	8,369	8,779	5,515	573,160	10,549
37	1/12/2020	94.1	8,300	8,620	5,554	579,020	10,655
38	1/12/2020	95.4	8,445	9,103	5,338	557,100	10,542
39	1/12/2020	92.5	8,896	9,689	5,274	194,300	7,570
40	1/13/2020	93.6	8,450	9,108	5,745	578,300	10,727
41	1/13/2020	93.1	9,192	9,884	5,105	290,630	8,716
42	1/13/2020	92.0	8,551	9,271	5,089	464,300	9,410
43	1/14/2020	91.7	8,480	9,217	5,170	599,920	10,878
44	1/14/2020	93.9	8,539	8,897	5,561	600,080	11,047
45	1/14/2020	89.7	8,721	9,502	5,494	535,380	10,458
46	1/14/2020	90.7	8,618	9,220	5,160	600,520	12,053
47	1/15/2020	95.4	8,423	8,901	5,680	597,400	11,084
48	1/15/2020	93.7	8,422	9,871	5,610	564,100	10,709
49	1/15/2020	95.0	8,353	8,763	5,292	600,740	11,831
50	1/16/2020	95.0	8,440	9,294	5,320	598,140	10,770
51	1/16/2020	96.1	8,341	8,855	5,360	599,960	10,875
52	1/16/2020	93.0	7,852	8,483	5,460	549,220	11,319
53	1/16/2020	94.1	7,688	8,576	5,640	602,080	10,951
54	1/17/2020	96.5	7,705	8,402	5,802	620,460	11,192
55	1/17/2020	95.8	7,638	8,358	5,638	619,840	10,104
56	1/17/2020	95	7,946	8,647	6,003	620,280	9,138
57	1/18/2020	95.9	7,829	8,593	5,472	593,240	8,519
58	1/18/2020	95.8	7,410	7,731	5,810	626,240	8,663
59	1/18/2020	95.9	7,355	7,937	5,790	620,880	8,554
KP	1/19/2020						

BHL is located on topo map 5,403 feet south of Latitude: 39°07'30"
 SHL is located on topo map 8,815 feet south of Latitude: 39°10'00"

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

BHL is located on topo map 8,011 feet west of Longitude: 80°25'00"
 SHL is located on topo map 429 feet west of Longitude: 80°27'30"

	LESSOR	DIST-TM/PAR
A	A. W. RHODES ET UX	20-444/19.2
B	DOMINION ENERGY TRANSMISSION, INC. TO HG ENERGY, LLC	3-7B/24
		3-7B/26
		3-7B/61
		3-7B/27
C	BENJAMIN H. BOND ET AL	4-7B/2
D	R. A. BEEGHLEY ET UX	4-7B/2
E	ANNA C. BARB ET AL	3-7B/27
F	EVERETT W. DAVIS ET AL	3-7B/27.3
		3-7B/30
G	CAROLINE BEEGHLEY ET AL	3-7B/31.3
		3-7B/31
H	MAUDIE BARB ET AL	3-7B/32.1
		3-7B/32
J	BERTHA BRINKLEY ET AL	3-7B/32.2
		3-7B/32
		4-7C/18.13
		4-7C/18.13
L	BERTHA H. NAY ET AL	4-7C/18.13
		4-7C/18.23
		4-7C/18.26
		4-7C/18.27
M	BERTHA H. NAY ET AL	4-7C/18.8
		4-7C/18.10
		4-7C/18.22
		4-7C/18.28
N	BERTHA H. NAY ET AL	4-7C/18.7
		4-7C/18.3
		4-7C/19
		4-7C/19.1
P	GERNIE FUNK ET AL	4-7C/18.28
		4-7C/17
Q	W. D. PLETCHER ET AL	4-7C/16
		4-7C/12
		4-7C/13
		4-7C/13.1
R	OPAL WIMER ET VIR	4-7C/13
		4-7C/13.1
S	E. C. STROTHER & ET AL	3-7C/66
T	N. L. ALLMAN ET VIR	3-7C/72
		3-7C/72.2
		3-7C/72.1
		3-7C/71.2
		3-7C/70



	SURFACE OWNER	DIST-TM/PAR
1	DANNY LEE & ALICIA A. STICKEL	20-444/19.2
2	DEBRA JO HEATER	3-7B/24
3	PATRICIA ANN LEAVITT & RAY BASIL WALKER	3-7B/26
4	MOLLIE S. SMITH	3-7B/61
5	ROBERTA M. GREEN	4-7B/2
6	SHANE L. STUTLER	3-7B/27
7	TOMIE L. & JENNIFER D. RINEHART	3-7B/27.3
8	LAURA L. & AARON J. HILLAN	3-7B/30
9	LAURA L. & AARON J. HILLAN	3-7B/31.3
10	JOHN J. OLDAKER, JR.	3-7B/31
11	TIMOTHY L. WOLFE	3-7B/32.1
12	LINDA HOLDEN ASHCRAFT	3-7B/32.2
13	TIMOTHY R. JAMES	3-7B/32
14	DAVID & DINESSIA MCDOUGAL	4-7C/18.13
15	GRAND LODGE OF WV IOOF	4-7C/82
16	JOHN ROBERT REEL	4-7C/89
17	LINDSAY B. SHORT & ADAM MOORE	4-7C/18.23
18	LINDSAY B. SHORT & ADAM R. MOORE	4-7C/18.26
19	RONZAL C. & RUTH A. ROSS	4-7C/18.27
20	CATHY J. DONNELLAN	4-7C/18.8
21	*HELEN A. LAYTON	4-7C/18.10
22	*JERRY R. FURR	4-7C/18.28
23	GLENDA J. BUTTS	4-7C/18.22
24	RICKY LEE & MELISSA LEIGH HOLLEN	4-7C/18.7
25	STEVEN P. & LISA R. JOHNSON	4-7C/18.3
26	LEOLA BRANDLI	4-7C/19
27	HOWARD STEVEN & CATHY LOUISE MCKAY	4-7C/19.1
28	STEVEN P. & LISA R. JOHNSON	4-7C/17
29	STEVEN P. & LISA R. JOHNSON	4-7C/16
30	JAMES CARL ROBISON	4-7C/12
31	JACK H. & PATRICIA R. BUSH	4-7C/13
32	JAMES EDWARD & LOUISE KAY DYER	4-7C/13.1
33	JOSHUA V. & MARSHA T. GARTON	3-7C/66
34	CARL V. RATLIFF	3-7C/72
35	ERIC SCOTT & JUDITH ANN JERDEN	3-7C/72.2
36	JANET B. RINEHART	3-7C/72.1
37	BARBARA TRUMBULL SQUIRES	3-7C/71.1
38	JAMES R. & BARBARA G. SQUIRES	3-7C/71.2
39	BARBARA G. SQUIRES	3-7C/70



* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

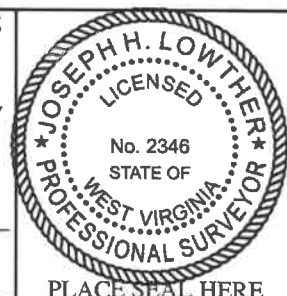
AS DRILLED
SURFACE HOLE LOCATION (SHL)
UTM 17-NAD83
N:4332725.044
E:546678.977
NAD27, WV NORTH
N:235420.170
E:1727704.432
LAT/LON DATUM-NAD83
LAT:39.142464
LON:-80.459847

AS DRILLED
APPROX. LANDING POINT
UTM 17-NAD83
N:4332529.628
E:546820.188
NAD27, WV NORTH
N:234771.187
E:1728157.142
LAT/LON DATUM-NAD83
LAT:39.140695
LON:-80.458227

AS DRILLED
BOTTOM HOLE LOCATION (BHL)
UTM 17-NAD83
N:4329138.242
E:547977.815
NAD27, WV NORTH
N:223578.972
E:1731770.654
LAT/LON DATUM-NAD83
LAT:39.110074
LON:-80.445072

FILE #: _____
DRAWING #: STICKEL 4H
SCALE: 1" = 2000'
MINIMUM DEGREE OF ACCURACY: 1/2500
PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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: MAY 5, 2020
OPERATOR'S WELL #: STICKEL 4H
API WELL #: 47 33 05927
STATE COUNTY PERMIT

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

WATERSHED: MIDDLE WEST FORK CREEK ELEVATION: 994±

COUNTY/DISTRICT: HARRISON / UNION QUADRANGLE: WEST MILFORD, WV 7.5'

SURFACE OWNER: DANNY LEE & ALICIA A. STICKEL ACREAGE: 35.00±

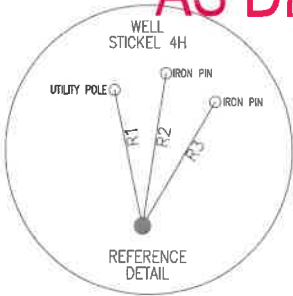
OIL & GAS ROYALTY OWNER: A. W. RHODES ET UX ACREAGE: 493.137±

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: MARCELLUS ESTIMATED DEPTH: TVD: 6,755± TMD: 18,459±

WELL OPERATOR: HG ENERGY II APPALACHIA, LLC DESIGNATED AGENT: DIANE C. WHITE
Address: 5260 DUPONT ROAD Address: 5260 DUPONT ROAD
City: PARKERSBURG State: WV Zip Code: 26101 City: PARKERSBURG State: WV Zip Code: 26101

AS DRILLED PLAT STICKEL 4H PAGE 2 OF 2



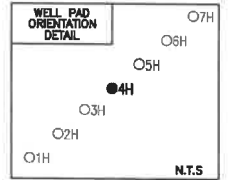
LINE	BEARING	DISTANCE
R1	N 11°47'32" W	201.45'
R2	N 08°50'16" E	224.49'
R3	N 30°40'30" E	209.54'
R4	S 88°09'21" W	1035.96'
R5	S 05°53'16" E	1315.12'
R6	S 62°10'36" E	751.09'

LEGEND

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- 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:

- There are no water wells or developed springs within 250' of proposed well.
- There are no existing buildings within 625' of proposed well.
- Proposed well is greater than 100' from perennial stream, wetland, pond, reservoir or lake.
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**AS DRILLED
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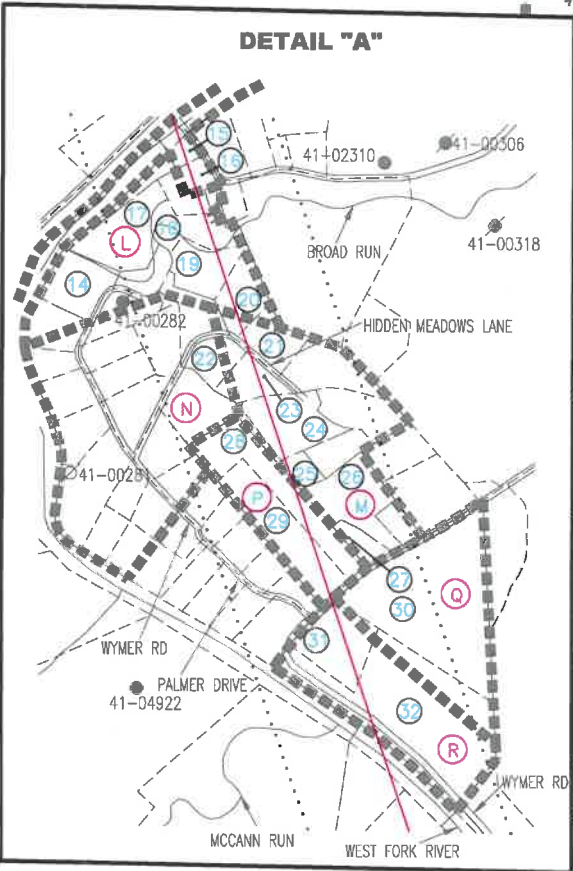
UTM 17-NAD83
N:4332725.044
E:546678.977
NAD27, WV NORTH
N:235420.170
E:1727704.432
LAT/LON DATUM-NAD83
LAT:39.142464
LON:-80.459847

**AS DRILLED
APPROX. LANDING POINT**

UTM 17-NAD83
N:4332529.628
E:546820.188
NAD27, WV NORTH
N:234771.187
E:1728157.142
LAT/LON DATUM-NAD83
LAT:39.140695
LON:-80.458227

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

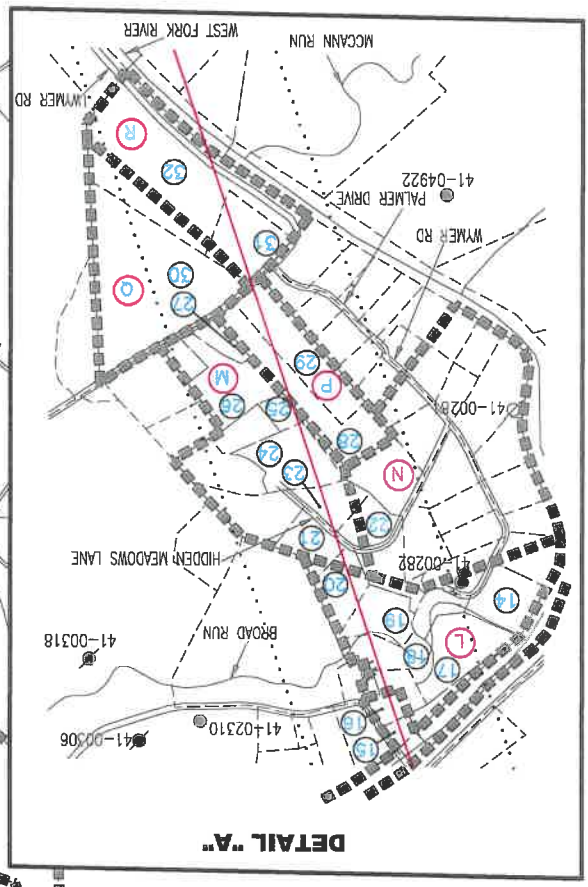
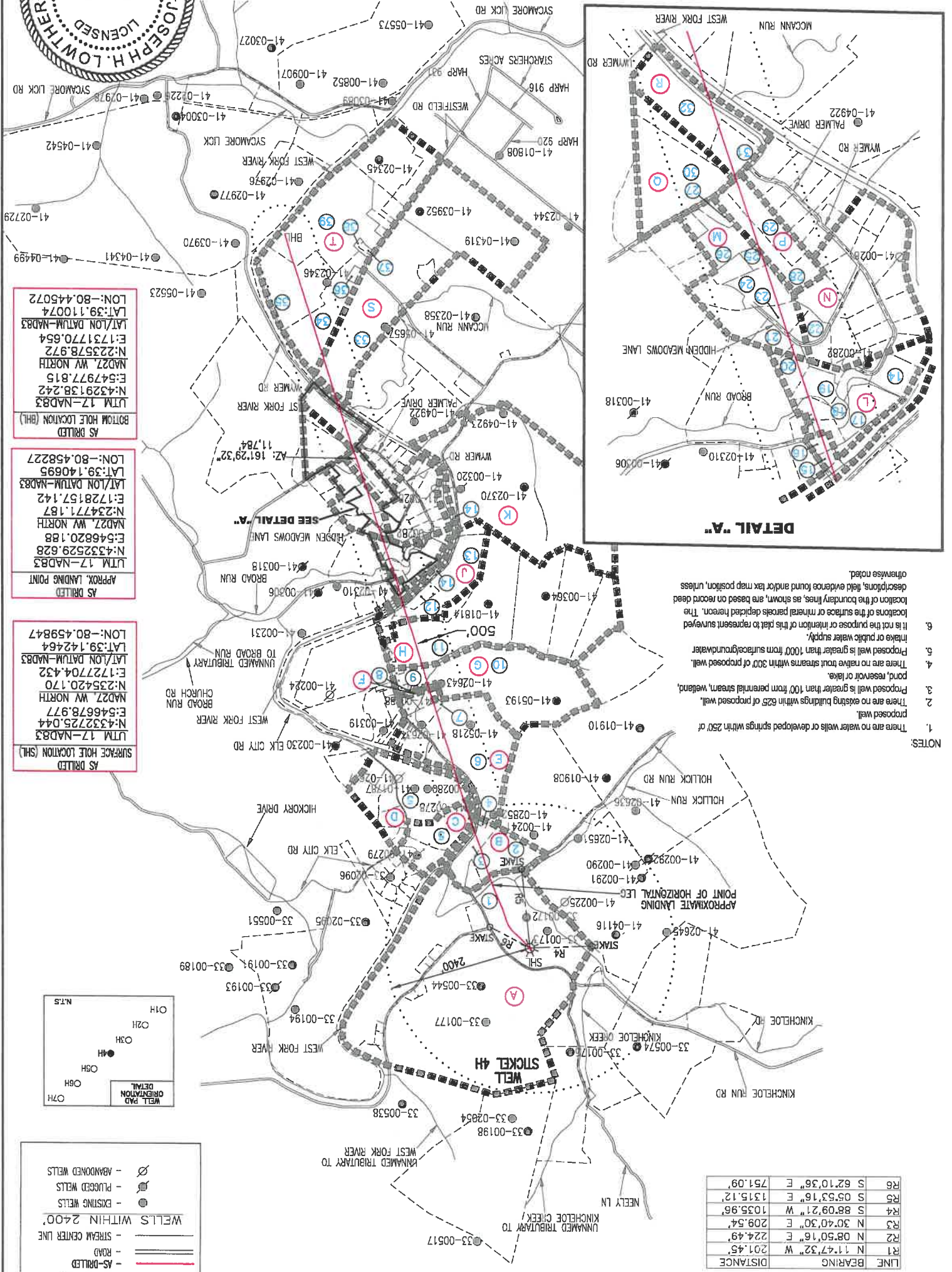
UTM 17-NAD83
N:4329138.242
E:547977.815
NAD27, WV NORTH
N:223578.972
E:1731770.654
LAT/LON DATUM-NAD83
LAT:39.110074
LON:-80.445072



MAY 5, 2020



MAY 5, 2020



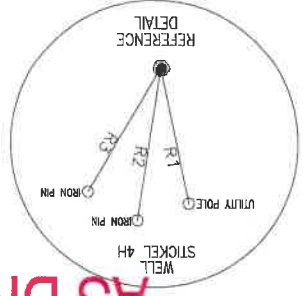
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 N:235420.170
 E:1727704.432
 LAT/LON DATUM=NAD83
 LAT:39.140695
 LON:-80.458227

AS DRILLED
 APPROX. LANDING POINT
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 NAD27, WV NORTH
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 NAD27, WV NORTH
 N:235420.170
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 LAT/LON DATUM=NAD83
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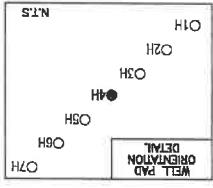


PAGE 2 OF 2
 4H
 STICHEL

AS DRILLED
 PLAT

LEGEND

- TOPO MAP POINT
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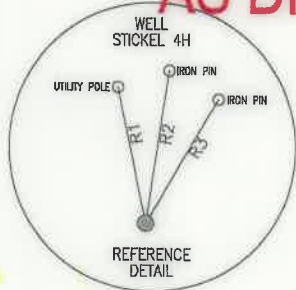


AS DRILLED

PLAT STICKEL

4H

PAGE 2 OF 2



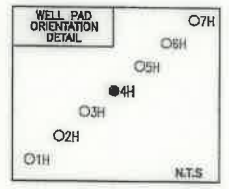
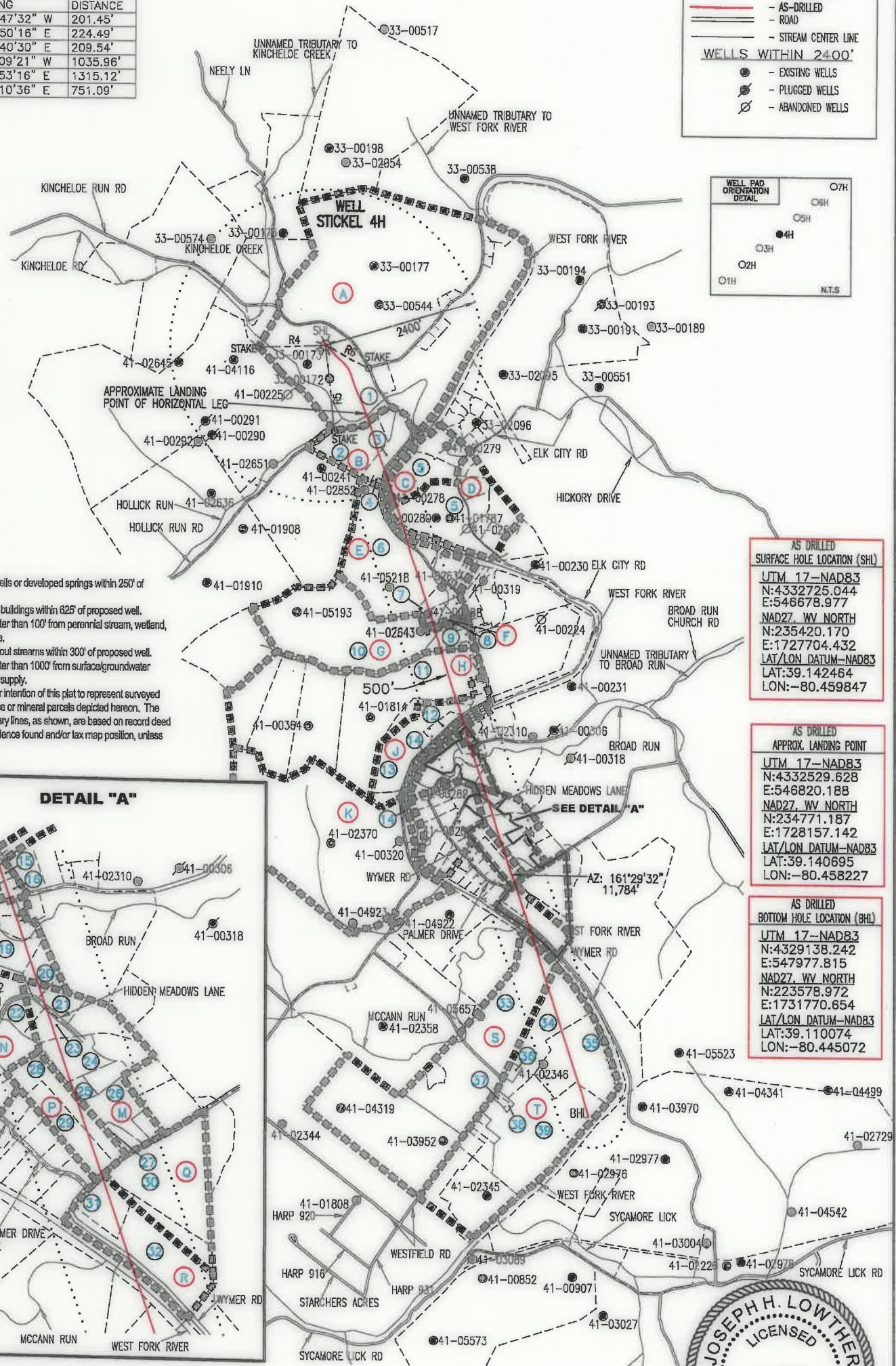
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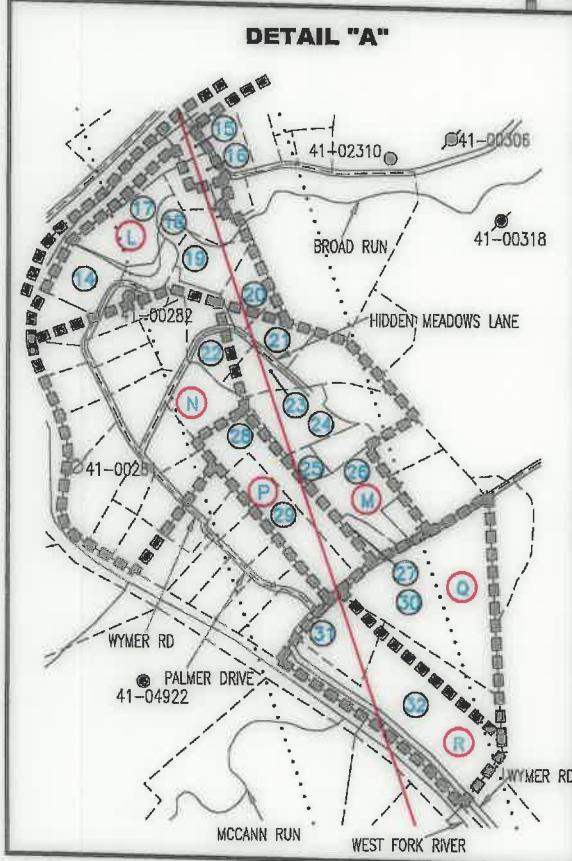
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LAT:39.140695
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E:547977.815
NAD27 WY NORTH
N:223578.972
E:1731770.654
LAT/LON DATUM-NAD83
LAT:39.110074
LON:-80.445072



MAY 5, 2020



BHL is located on topo map 5,403 feet south of Latitude: 39° 07' 30"
 SHL is located on topo map 8,815 feet south of Latitude: 39° 10' 00"

SEE PAGE 2 FOR PLAT DUE TO LENGTH OF LATERAL

BHL is located on topo map 8,011 feet west of Longitude: 80° 25' 00"
 SHL is located on topo map 429 feet west of Longitude: 80° 27' 30"

LESSOR	DIST-TM/PAR
A A. W. RHODES ET UX	20-444/19.2
B DOMINION ENERGY TRANSMISSION, INC. TO HG ENERGY, LLC	3-7B/24
	3-7B/26
	3-7B/61
C BENJAMIN H. BOND ET AL	4-7B/2
D R. A. BEEGHLEY ET UX	4-7B/2
E ANNA C. BARB ET AL	3-7B/27
	3-7B/27.3
F EVERETT W. DAVIS ET AL	3-7B/30
G CAROLINE BEEGHLEY ET AL	3-7B/31.3
	3-7B/31
H MAUDIE BARB ET AL	3-7B/32.1
	3-7B/32
J BERTHA BRINKLEY ET AL	3-7B/32.2
	3-7B/32
	4-7C/18.13
K JOHN S. BARB ET UX	4-7C/18.13
L BERTHA H. NAY ET AL	4-7C/18.13
	4-7C/18.23
	4-7C/18.26
	4-7C/18.27
	4-7C/18.8
M BERTHA H. NAY ET AL	4-7C/18.10
	4-7C/18.22
	4-7C/18.28
	4-7C/18.7
	4-7C/18.3
	4-7C/19
	4-7C/19.1
N BERTHA H. NAY ET AL	4-7C/18.28
P GERNIE FUNK ET AL	4-7C/17
	4-7C/16
Q W. D. PLETCHER ET AL	4-7C/12
	4-7C/13
	4-7C/13.1
R OPAL WIMER ET VIR	4-7C/13
	4-7C/13.1
S E. C. STROTHER & ET AL	3-7C/66
T N. L. ALLMAN ET VIR	3-7C/72
	3-7C/72.2
	3-7C/72.1
	3-7C/71.1
	3-7C/71.2
	3-7C/70



SURFACE OWNER	DIST-TM/PAR
1 DANNY LEE & ALICIA A. STICKEL	20-444/19.2
2 DEBRA JO HEATER	3-7B/24
3 PATRICIA ANN LEAVITT & RAY BASIL WALKER	3-7B/26
4 MOLLIE S. SMITH	3-7B/61
5 ROBERTA M. GREEN	4-7B/2
6 SHANE L. STUTLER	3-7B/27
7 TOMIE L. & JENNIFER D. RINEHART	3-7B/27.3
8 LAURA L. & AARON J. HILLAN	3-7B/30
9 LAURA L. & AARON J. HILLAN	3-7B/31.3
10 JOHN J. OLDAKER, JR.	3-7B/31
11 TIMOTHY L. WOLFE	3-7B/32.1
12 LINDA HOLDEN ASHCRAFT	3-7B/32.2
13 TIMOTHY R. JAMES	3-7B/32
14 DAVID & DINESSIA MCDUGAL	4-7C/18.13
15 GRAND LODGE OF WV IOOF	4-7C/82
16 JOHN ROBERT REEL	4-7C/89
17 LINDSAY B. SHORT & ADAM MOORE	4-7C/18.23
18 LINDSAY B. SHORT & ADAM R. MOORE	4-7C/18.26
19 RONZAL C. & RUTH A. ROSS	4-7C/18.27
20 CATHY J. DONNELLAN	4-7C/18.8
21 *HELEN A. LAYTON	4-7C/18.10
22 *JERRY R. FURR	4-7C/18.28
23 GLENDA J. BUTTS	4-7C/18.22
24 RICKY LEE & MELISSA LEIGH HOLLEN	4-7C/18.7
25 STEVEN P. & LISA R. JOHNSON	4-7C/18.3
26 LEOLA BRANDLI	4-7C/19
27 HOWARD STEVEN & CATHY LOUISE MCKAY	4-7C/19.1
28 STEVEN P. & LISA R. JOHNSON	4-7C/17
29 STEVEN P. & LISA R. JOHNSON	4-7C/16
30 JAMES CARL ROBISON	4-7C/12
31 JACK H. & PATRICIA R. BUSH	4-7C/13
32 JAMES EDWARD & LOUISE KAY DYER	4-7C/13.1
33 JOSHUA V. & MARSHA T. GARTON	3-7C/66
34 CARL V. RATLIFF	3-7C/72
35 ERIC SCOTT & JUDITH ANN JERDEN	3-7C/72.2
36 JANET B. RINEHART	3-7C/72.1
37 BARBARA TRUMBULL SQUIRES	3-7C/71.1
38 JAMES R. & BARBARA G. SQUIRES	3-7C/71.2
39 BARBARA G. SQUIRES	3-7C/70



* - DENOTES PARCEL WITHIN 30 FEET OF PLANNED WELL BORE

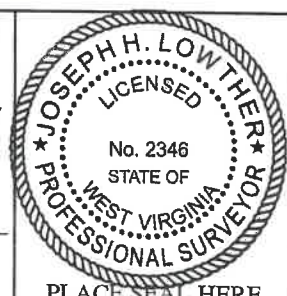
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FILE #: STICKEL 4H
 DRAWING #: STICKEL 4H
 SCALE: 1" = 2000'
 MINIMUM DEGREE OF ACCURACY: 1/2500
 PROVEN SOURCE OF ELEVATION: U.S.G.S. MONUMENT THOMAS 1498.81'

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