

WR-35
Rev. 8/23/13

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

API 47-069-00243 County OHIO District LIBERTY
Quad BETHANY, WV Pad Name BENJAMIN HONECKER OHI PAD 1 Field/Pool Name PANHANDLE FIELD WET
Farm name JANET L HONECKER AND ELIZABETH H. HESTICK Well Number BENJAMIN HONECKER OHI 6H
Operator (as registered with the OOG) SWN PRODUCTION COMPANY, LLC
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4,445,000.49 Easting 533,105.52
Landing Point of Curve Northing 4,444,724.36 Easting 532,979.54
Bottom Hole Northing 4,442,580.15 Easting 534,181.47

Elevation (ft) 1103.8' 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)
SOBM

Date permit issued 9/11/2017 Date drilling commenced 9/28/2018 Date drilling ceased 11/2/2018
Date completion activities began 1/5/2019 Date completion activities ceased 2/21/2019
Verbal plugging (Y/N) N Date permission granted N/A Granted by N/A

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

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Freshwater depth(s) ft 324' Open mine(s) (Y/N) depths N
Salt water depth(s) ft 392' Void(s) encountered (Y/N) depths N
Coal depth(s) ft 267' Cavern(s) encountered (Y/N) depths N
Is coal being mined in area (Y/N) N

Reviewed by:

5-28-19

WV Department of Environmental Protection

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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	24	20	126	NEW	J-55/94#		Y
Surface	17.5	13.375	375	NEW	J-55/54.5#	252.1 / 293.3	Y;23
Coal	SEE SURFACE						
Intermediate 1	12.25	9.625	1,718	NEW	J-55/36#		Y
Intermediate 2							
Intermediate 3							
Production	8.75/8.50	5.5	14,534	NEW	HCP-110/20#		Y
Tubing		2.375	6,400	NEW	P-110/4.7#		N
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	CLASS A	GROUT TO SURFACE				SURFACE	24
Surface	CLASS A	422	15.6	1.20	506.4	SURFACE	8
Coal	SEE SURFACE						
Intermediate 1	CLASS A	663	15.6	1.19	788.97	SURFACE	8
Intermediate 2							
Intermediate 3							
Production	CLASS A	2,720	15.6	1.19	3,236.80	SURFACE	24
Tubing							

Drillers TD (ft) 14,534' Loggers TD (ft) 14,534'
 Deepest formation penetrated MARCELLUS Plug back to (ft) N/A
 Plug back procedure N/A

Kick off depth (ft) 5,176'

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 _____

SURFACE: 7 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 INTERMEDIATE: 24 CENTRALIZERS - EVERY THIRD JOINT OF CASING
 PRODUCTION: 181 CENTRALIZERS - EVERY THIRD JOINT FROM SURFACE TO TOP OF CURVE, THEN EVERY JOINT UNTIL TD

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 _____

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PERFORATION RECORD

Stage No.	Perforation date	Perforated from MD ft.	Perforated to MD ft.	Number of Perforations	Formation(s)
	SEE	ATTACHMEN	1		

Please insert additional pages as applicable.

STIMULATION INFORMATION PER STAGE

Complete a separate record for each stimulation stage.

Stage No.	Stimulations Date	Ave Pump Rate (BPM)	Ave Treatment Pressure (PSI)	Max Breakdown Pressure (PSI)	ISIP (PSI)	Amount of Proppant (lbs)	Amount of Water (bbls)	Amount of Nitrogen/other (units)
	SEE	ATTACHMEN	2					

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Please insert additional pages as applicable.

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PRODUCING FORMATION(S)	DEPTHS
MARCELLUS	5,878' TVD 6,180' MD

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 1,985 psi Bottom Hole _____ psi DURATION OF TEST _____ hrs

OPEN FLOW Gas 4,527 mcfpd Oil 482 bpd NGL _____ bpd Water 785 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 ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
	SEE	ATTACHMENT	3		

Please insert additional pages as applicable.

Drilling Contractor SWN DRILLING COMPANY
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

Logging Company BAKER HUGHES
Address 9110 GROGANS MILL RD City THE WOODLANDS State TX Zip 77380

Cementing Company B J SERVICES
Address 11211 FM 2920 City TOMBALL State TX Zip 77377

Stimulating Company HALLIBURTON ENERGY SERVICE
Address 14851 MILNER ROAD, GATE 5A City HOUSTON State TX Zip 77032

Please insert additional pages as applicable.

Completed by DENISE GRANTHAM Telephone 832-796-6139
Signature *Denise Grantham* Title REGULATORY TECHNICIAN Date 5/21/2019

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Hydraulic Fracturing Fluid Product Component Information Disclosure

Job Start Date:	1/6/2019
Job End Date:	2/12/2019
State:	West Virginia
County:	Ohio
API Number:	47-069-00243-00-00
Operator Name:	Southwestern Energy
Well Name and Number:	Benjamin Honecker OHI 6H
Latitude:	40.15470100
Longitude:	-80.61128800
Datum:	NAD83
Federal Well:	NO
Indian Well:	NO
True Vertical Depth:	5,983
Total Base Water Volume (gal):	15,352,751
Total Base Non Water Volume:	0



Hydraulic Fracturing Fluid Composition:

Trade Name	Supplier	Purpose	Ingredients	Chemical Abstract Service Number (CAS #)	Maximum Ingredient Concentration in Additive (% by mass)**	Maximum Ingredient Concentration in HF Fluid (% by mass)**	Comments
Fresh Water	Operator	Base Fluid					
			Water	7732-18-5	100.00000	87.62246	Density = 8.330
Ingredients	Listed Above	Listed Above	Water	7732-18-5	100.00000	1.03691	

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LP-65 MC	Halliburton	Scale Inhibitor			Listed Below				
SAND- PREMIUM WHITE-40/70, BULK	Halliburton	Proppant							
FR-76	Halliburton	Friction Reducer			Listed Below				
SAND-COMMON WHITE-100 MESH, SSA-2, BULK (100003676)	Halliburton	Proppant			Listed Below				
EXCELERATE LX-1	Halliburton	Friction Reducer			Listed Below				
Nalco Scale	NALCO	Scale Inhibitor			Listed Below				
HYDROCHLORI C ACID	Halliburton	Solvent			Listed Below				
BE-9W	Halliburton	Biocide			Listed Below				

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Items above are Trade Names with the exception of Base Water. Items below are the individual ingredients.						
	Crystalline silica, quartz	14808-60-7	100.00000	11.30107		
	Hydrochloric acid	7647-01-0	7.50000	0.07232		
	Polyacrylate	Proprietary	30.00000	0.02594		
	Hydrotreated light petroleum distillate	64742-47-8	30.00000	0.02594		
	Propylene glycol	57-55-6	60.00000	0.01211		
	Fatty acid ester	Proprietary	5.00000	0.00865		
	Ammonium chloride	12125-02-9	30.00000	0.00435		
	Sodium chloride	7647-14-5	5.00000	0.00432		
	Ethoxylated fatty acid	Proprietary	5.00000	0.00432		
	Methanol	67-56-1	60.00000	0.00273		
	Tributyl tetradecyl phosphonium chloride	81741-28-8	10.00000	0.00202		
	Benzyl-(C12-C16 Alkyl)-Dimethyl-Ammonium Chloride	68424-85-1	30.00000	0.00137		
	Glutaraldehyde	111-30-8	10.00000	0.00046		
	Inorganic salt	Proprietary	30.00000	0.00029		
	Acrylamide acrylate copolymer	Proprietary	30.00000	0.00029		Denise Tuck, Halliburton, 3000 N. Sam Houston Pkwy E., Houston, TX 77032, 281-871-6226
	Organic phosphonate	Proprietary	60.00000	0.00004		
	Diammonium phosphate	7783-28-0	5.00000	0.00000		

* Total Water Volume sources may include various types of water including fresh water, produced water, and recycled water

** Information is based on the maximum potential for concentration and thus the total may be over 100%

*** If you are calculating a percentage of total ingredients do not add the water volume below the green line to the water volume above the green line

Note: For Field Development Products (products that begin with FDP), MSDS level only information has been provided. Ingredient information for chemicals subject to 29 CFR 1910.1200(i) and Appendix D are obtained from suppliers Material Safety Data Sheets (MSDS)

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ATTACHMENT 1
PERF REPORT

STAGE NUM	Perf Date	Perf Bottom MI	Perf Top MD2	# SHOTS PER STG
1	12/22/2018	14,473	14,385	36
2	1/6/2019	14,364	14,302	42
3	1/7/2019	14,284	14,222	42
4	1/7/2019	14,204	14,142	42
5	1/7/2019	14,124	14,062	42
6	1/10/2019	14,044	13,982	42
7	1/10/2019	13,964	13,902	42
8	1/11/2019	13,884	13,822	42
9	1/11/2019	13,804	13,742	42
10	1/11/2019	13,724	13,662	42
11	1/12/2019	13,644	13,580	42
12	1/12/2019	13,564	13,502	42
13	1/12/2019	13,484	13,422	42
14	1/13/2019	13,404	13,342	42
15	1/13/2019	13,324	13,260	42
16	1/14/2019	13,244	13,182	42
17	1/14/2019	13,164	13,102	42
18	1/14/2019	13,084	13,022	42
19	1/15/2019	13,004	12,942	42
20	1/15/2019	12,924	12,862	42
21	1/16/2019	12,844	12,782	42
22	1/16/2019	12,764	12,702	42
23	1/16/2019	12,684	12,622	42
24	1/17/2019	12,602	12,542	42
25	1/17/2019	12,522	12,465	42
26	1/17/2019	12,444	12,382	42
27	1/17/2019	12,364	12,302	42
28	1/18/2019	12,284	12,222	42
29	1/18/2019	12,204	12,142	42
30	1/18/2019	12,124	12,062	42
31	1/19/2019	12,044	11,982	42
32	1/19/2019	11,964	11,902	42
33	1/19/2019	11,884	11,822	42
34	1/19/2019	11,804	11,742	42
35	1/20/2019	11,724	11,662	42
36	1/22/2019	11,644	11,582	42
37	1/24/2019	11,562	11,502	42
38	1/24/2019	11,484	11,422	42
39	1/24/2019	11,404	11,342	42
40	1/25/2019	11,322	11,262	42
41	1/25/2019	11,242	11,182	42
42	1/25/2019	11,164	11,102	42
43	1/26/2019	11,082	11,022	42
44	1/26/2019	11,002	10,942	42

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STAGE NUM	Perf Date	Perf Bottom MI	Perf Top MD2	# SHOTS PER STG
45	1/26/2019	10,924	10,862	42
46	1/26/2019	10,844	10,782	42
47	1/27/2019	10,764	10,702	42
48	1/27/2019	10,684	10,622	42
49	1/27/2019	10,604	10,542	42
50	1/27/2019	10,524	10,462	42
51	1/28/2019	10,444	10,382	42
52	1/28/2019	10,364	10,302	42
53	1/28/2019	10,284	10,222	42
54	1/29/2019	10,204	10,142	42
55	1/29/2019	10,124	10,062	42
56	1/29/2019	10,044	9,982	42
57	1/30/2019	9,964	9,902	42
58	1/30/2019	9,884	9,822	42
59	1/31/2019	9,804	9,742	42
60	1/31/2019	9,722	9,662	42
61	2/1/2019	9,644	9,582	42
62	2/1/2019	9,564	9,502	42
63	2/1/2019	9,484	9,422	42
64	2/1/2019	9,404	9,342	42
65	2/2/2019	9,321	9,262	42
66	2/2/2019	9,244	9,182	42
67	2/2/2019	9,164	9,102	42
68	2/3/2019	9,084	9,022	42
69	2/3/2019	9,004	8,940	42
70	2/3/2019	8,924	8,865	42
71	2/3/2019	8,844	8,782	42
72	2/3/2019	8,764	8,702	42
73	2/4/2019	8,684	8,622	42
74	2/4/2019	8,604	8,542	42
75	2/4/2019	8,524	8,462	42
76	2/4/2019	8,444	8,382	42
77	2/5/2019	8,364	8,302	42
78	2/5/2019	8,282	8,222	42
79	2/5/2019	8,202	8,142	42
80	2/5/2019	8,122	8,062	42
81	2/5/2019	8,044	7,982	42
82	2/5/2019	7,964	7,902	42
83	2/5/2019	7,884	7,822	42
84	2/5/2019	7,804	7,742	42
85	2/6/2019	7,724	7,662	42
86	2/6/2019	7,644	7,582	42
87	2/7/2019	7,564	7,502	42
88	2/7/2019	7,484	7,422	42

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STAGE NUM	Perf Date	Perf Bottom MI	Perf Top MD2	# SHOTS PER STG
89	2/7/2019	7,404	7,342	39
90	2/7/2019	7,324	7,262	42
91	2/8/2019	7,244	7,182	42
92	2/8/2019	7,164	7,102	42
93	2/9/2019	7,084	7,022	42
94	2/9/2019	7,004	6,942	42
95	2/10/2019	6,924	6,862	42
96	2/10/2019	6,844	6,782	42
97	2/10/2019	6,684	6,622	42
98	2/11/2019	6,604	6,542	42
99	2/11/2019	6,524	6,462	42
100	2/11/2019	6,482	6,522	42
101	2/12/2019	6,764	6,702	42
102	2/12/2019	6,362	6,302	42

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 ATTACHMENT 2
 STIM REPORT

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/othe
1	1/6/2019	85	8,134	8,391	3,602	139,090	3,649	0
2	1/6/2019	85.1	7,916	4,652	3,833	169,843	4,388	0
3	1/7/2019	90.7	8,225	5,928	4,043	155,458	4,250	0
4	1/7/2019	86.8	8,125	5,842	4,361	161,650	4,176	0
5	1/7/2019	90	8,346	5,525	4,331	158,060	3,844	0
6	1/10/2019	75.3	8,043	5,435	4,301	163,330	6,097	0
7	1/10/2019	82.4	8,194	5,670	4,276	168,200	4,063	0
8	1/11/2019	82.1	8,213	5,310	4,602	163,191	5,848	0
9	1/11/2019	87.5	6,844	6,844	4,190	159,290	5,266	0
10	1/11/2019	96.8	8,330	5,815	4,711	160,370	3,996	0
11	1/12/2019	89.4	8,319	5,387	4,578	152,420	3,774	0
12	1/12/2019	89.1	8,064	5,562	4,237	163,520	4,214	0
13	1/13/2019	101	8,247	5,082	4,540	173,860	3,851	0
14	1/13/2019	95.9	8,184	5,305	4,709	113,430	3,681	0
15	1/13/2019	97.9	8,382	5,538	4,505	174,610	4,126	0
16	1/14/2019	96	8,123	5,535	4,295	166,905	4,315	0
17	1/14/2019	98.6	8,136	5,520	4,800	165,900	4,017	0
18	1/14/2019	97	8,418	5,250	4,577	162,220	3,929	0
19	1/15/2019	95.5	8,223	5,258	4,423	159,714	3,712	0
20	1/15/2019	99.2	8,415	5,281	4,557	161,360	3,985	0
21	1/16/2019	95.4	8,520	5,641	4,395	156,310	3,992	0
22	1/16/2019	96.4	8,204	5,409	4,747	164,140	3,764	0
23	1/16/2019	93.5	8,152	5,680	4,595	160,620	3,619	0
24	1/17/2019	89.5	8,220	5,264	4,515	163,660	4,007	0
25	1/17/2019	89.6	8,138	5,619	4,881	161,090	3,646	0
26	1/17/2019	93.4	8,277	5,967	4,867	158,360	3,880	0
27	1/18/2019	94.5	8,227	5,505	4,640	161,130	3,900	0
28	1/18/2019	96.1	8,240	5,540	4,882	162,350	3,689	0
29	1/18/2019	95.4	8,265	5,701	4,836	163,230	3,704	0
30	1/19/2019	97.4	7,978	5,620	4,897	169,997	4,000	0
31	1/19/2019	95.4	8,243	5,620	4,671	162,620	3,700	0
32	1/19/2019	88.5	8,282	5,529	4,644	161,060	3,533	0
33	1/19/2019	94.3	7,918	5,802	4,874	160,570	3,796	0
34	1/20/2019	90	8,247	5,022	4,589	161,020	3,765	0
35	1/22/2019	80.4	7,450	4,584	4,649	93,308	6,069	0
36	1/24/2019	93.5	7,836	5,799	4,757	161,060	3,884	0
37	1/24/2019	94.6	7,828	5,846	4,668	163,930	3,507	0
38	1/24/2019	94.6	7,932	5,674	4,722	163,750	3,509	0
39	1/25/2019	94.9	8,105	5,476	4,757	159,823	3,643	0
40	1/25/2019	92.8	7,825	5,678	4,709	164,830	3,599	0
41	1/25/2019	90.1	7,920	5,412	4,802	161,410	3,516	0
42	1/25/2019	91.3	7,733	5,433	4,741	164,496	3,784	0
43	1/26/2019	90.7	7,898	5,757	4,607	156,580	3,545	0
44	1/26/2019	96.9	8,132	5,501	4,647	160,460	3,382	0
45	1/26/2019	95.5	7,950	5,446	4,649	160,588	3,513	0
46	1/27/2019	94.1	8,019	5,385	4,738	162,677	3,473	0
47	1/27/2019	93.6	7,926	5,474	4,626	161,760	3,255	0
48	1/27/2019	85	7,676	5,431	4,673	159,620	3,302	0
49	1/27/2019	92.9	7,895	5,458	4,708	165,117	3,554	0
50	1/28/2019	90.5	7,973	5,572	4,576	159,380	3,544	0
51	1/28/2019	94.5	7,803	5,343	4,773	159,520	3,212	0

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ATTACHMENT 2

STIM REPORT

STAGE NUM	Stim Date	Ave Pump Rate (BPM)	Ave Treatment	Max Breakdown	ISIP (PSI)	Amount of Proppant (lbs)	Amount of water bbls	Amount of nitrogen/other
52	1/28/2019	94	7,917	4,976	4,240	160,751	3,493	0
53	1/29/2019	96.1	8,025	5,162	4,647	159,343	3,449	0
54	1/29/2019	99.6	7,863	4,786	4,606	162,910	3,250	0
55	1/29/2019	91.2	7,830	5,288	4,651	159,564	3,660	0
56	1/30/2019	87	8,115	5,512	4,833	160,277	3,683	0
57	1/30/2019	75.9	7,139	5,895	4,697	161,998	5,434	0
58	1/31/2019	91.8	7,393	5,490	4,718	161,344	3,625	0
59	1/31/2019	92.9	7,400	5,144	4,553	160,620	3,437	0
60	1/31/2019	95.7	8,044	5,486	4,708	162,726	3,568	0
61	2/1/2019	93	7,495	5,141	4,705	159,960	3,529	0
62	2/1/2019	94	7,542	5,562	4,720	161,400	3,334	0
63	2/1/2019	95.8	7,493	5,020	4,517	159,809	4,018	0
64	2/2/2019	97.9	7,568	5,325	4,444	166,640	3,595	0
65	2/2/2019	95	7,273	5,102	4,308	159,080	3,349	0
66	2/2/2019	96.1	7,951	5,872	4,917	161,270	3,374	0
67	2/2/2019	97.8	8,044	5,521	4,785	160,777	3,158	0
68	2/3/2019	96.4	7,777	5,458	4,543	161,057	3,220	0
69	2/3/2019	101	7,631	5,463	4,775	160,810	3,213	0
70	2/3/2019	97	7,806	5,660	4,698	160,020	3,231	0
71	2/3/2019	96.2	7,917	5,909	4,553	160,432	3,151	0
72	2/3/2019	95.9	8,073	5,489	4,410	176,951	3,260	0
73	2/4/2019	95	7,917	5,401	4,570	164,516	3,191	0
74	2/4/2019	93	7,812	5,510	4,359	167,610	3,252	0
75	2/4/2019	96.7	7,839	5,584	4,748	159,560	3,306	0
76	2/4/2019	98.7	7,735	5,223	4,697	160,943	3,196	0
77	2/5/2019	95.7	7,723	5,287	4,624	161,022	3,137	0
78	2/5/2019	98.6	7,681	5,769	4,389	164,370	3,239	0
79	2/5/2019	93.8	8,005	5,552	4,281	159,900	3,196	0
80	2/5/2019	98.6	7,627	5,182	4,376	162,090	3,604	0
81	2/6/2019	99.7	7,589	5,493	4,404	160,590	3,194	0
82	2/6/2019	100.7	7,599	5,434	4,778	159,520	3,057	0
83	2/6/2019	98.9	7,985	5,439	4,818	159,770	3,075	0
84	2/6/2019	99.6	7,805	5,398	4,604	159,570	3,130	0
85	2/6/2019	100.3	7,533	5,316	4,712	160,280	3,096	0
86	2/7/2019	99.4	7,848	4,722	4,665	160,010	3,449	0
87	2/7/2019	8195	8,195	5,629	4,528	159,580	2,997	0
88	2/7/2019	100.6	7,921	5,426	3,571	159,900	3,096	0
89	2/8/2019	98.3	7,887	5,532	3,701	160,470	3,176	0
90	2/8/2019	100.6	7,456	5,524	4,505	161,640	3,109	0
91	2/8/2019	99.2	7,604	5,006	4,498	161,760	3,088	0
92	2/9/2019	99.7	7,808	5,406	4,730	164,220	3,076	0
93	2/9/2019	100.1	7,760	5,634	4,802	160,840	2,990	0
94	2/9/2019	100	7,114	5,037	4,573	165,820	3,129	0
95	2/10/2019	100.6	7,776	5,415	5,023	159,440	2,959	0
96	2/10/2019	100.5	7,204	5,829	4,708	161,270	2,946	0
97	2/11/2019	98.7	7,559	5,933	4,607	158,620	3,101	0
98	2/11/2019	99.7	7,908	7,525	4,752	159,480	3,052	0
99	2/11/2019	99.7	7,742	5,460	4,911	158,420	2,938	0
100	2/12/2019	99.6	6,787	5,557	4,543	159,590	3,007	0
101	2/12/2019	99	7,274	4,958	4,684	159,310	2,919	0
102	2/12/2019	94.8	6,337	4,596	4,500	266,024	4,228	0

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MAY 22 2019
WV Department of Environmental Protection



Well Name: Benjamin Honecker OHI 6H

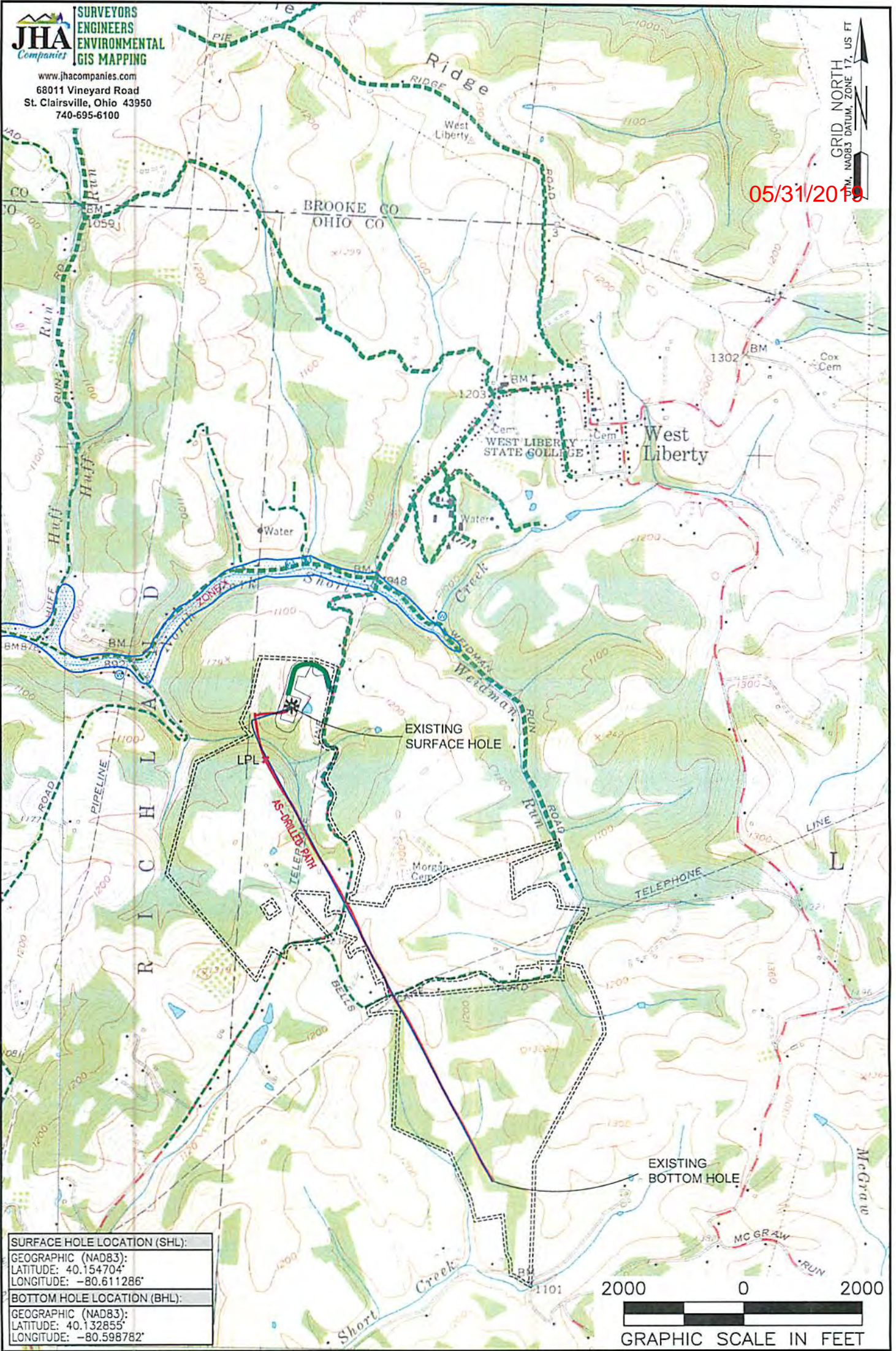
Attachment 3

LITHOLOGY/FORMATION	TOP DEPTH, MD (FT)	TOP DEPTH, TVD (FT)	BOTTOM DEPTH, MD (FT)	BOTTOM DEPTH, TVD (FT)	QUANTITY AND TYPE OF FLUID
Base of Fresh Water	0.00	0.00	324.00	324.00	
Pittsburgh Coal	267.00	267.00	277.00	277.00	
Top of Salt Water	392.00	392.00	NA	NA	
Pottsville (ss)	398.00	398.00	746.00	746.00	
Raven Cliff (ss)	746.00	746.00	1149.00	1149.00	
Maxton (ss)	1149.00	1149.00	1432.00	1432.00	
Big Injun (ss)	1432.00	1432.00	5509.00	5412.00	
Rhinstreet (shale)	5612.00	5517.00	5689.00	5582.00	
Cashaqua (shale)	5689.00	5582.00	5764.00	5641.00	
Middlesex (shale)	5764.00	5641.00	5856.00	5706.00	
Burket (shale)	5856.00	5706.00	5890.00	5728.00	
Tully (ls)	5890.00	5728.00	5977.00	5781.00	
Mahantango (shale)	5977.00	5781.00	6180.00	5878.00	
Marcellus (shale)	6180.00	5878.00	NA	NA	GAS

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MAY 22 2019
WV Department of
Environmental Protection

05/31/2019



SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.154704°
LONGITUDE: -80.611286°
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83):
LATITUDE: 40.132855°
LONGITUDE: -80.598782°

NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:	ACCESS ROAD
PROPOSED SURFACE HOLE / BOTTOM HOLE	PUBLIC ROAD
EXISTING / PRODUCING WELLHEAD	ACCESS ROAD TO PREV. SITE
LPL X LANDING POINT LOCATION	LEASE BOUNDARY
FLOOD PLAIN	PROPOSED PATH
	AS-DRILLED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: BENJAMIN HONECKER OHI	WELL # 6H	SERIAL # XXXX
ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201, MORGANTOWN, WV 26508	COUNTY - CODE OHIO - 069	DISTRICT: LIBERTY	API NO: 47-069-00243
SURFACE OWNER: JANET L. HONECKER AND ELIZABETH H. HESTICK	USGS 7 1/2 QUADRANGLE MAP NAME: BETHANY, WV & TILTONSVILLE, OH-WV		

LATITUDE: 40°10'00" BOTTOM HOLE | 4376'

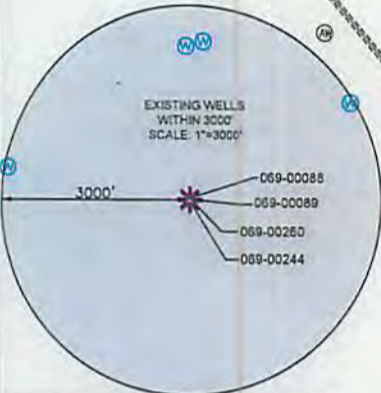
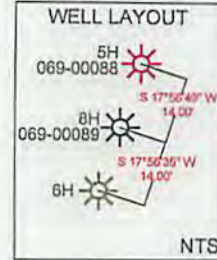
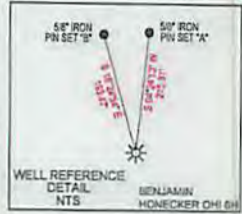
LATITUDE: 40°10'00" SURFACE HOLE | 7869'

JHA
SURVEYORS
ENGINEERS
ENVIRONMENTAL
GIS MAPPING
www.jhacompanies.com
68011 Vineyard Road
St. Clairsville, Ohio 43950
740-695-6100

NOTES ON SURVEY

1. COORDINATE SYSTEM IS UTM NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS OR BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD
5. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
6. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF THE LIMITS OF DISTURBANCE.
7. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.

05/31/2019



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4445000.49
EASTING: 533105.52

LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4444724.36
EASTING: 532979.54

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4442580.15
EASTING: 534181.47

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4445000.48
EASTING: 533105.52

LANDING POINT (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4444763.19
EASTING: 532970.31

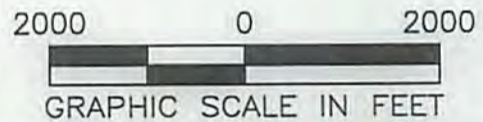
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4442577.95
EASTING: 534177.83

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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2041



LINE	BEARING	DISTANCE
L1	S31°52'31"E	975.14'
L2	N04°02'47"W	1054.09'



COMPANY: **SWN** Production Company, LLC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

BENJAMIN HONECKER OHI

OPERATOR'S WELL #: 6H

API WELL #: 47 069 00243
STATE COUNTY PERMIT

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

WATERSHED: BUFFALO CREEK ELEVATION: 1103.8'

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: BETHANY, WV

SURFACE OWNER: JANET L. HONECKER AND ELIZABETH H. HESTICK ACREAGE: ±50.29

OIL & GAS ROYALTY OWNER: JANET L. HONECKER AND ELIZABETH H. HESTICK ACREAGE: ±50.29

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) AS-DRILLED

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,050' TVD 14,534' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY

ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE, SUITE 201



CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		03-14-2019
⊙ EXISTING / PRODUCING WELLHEAD		API NO: 47-069-00243
LPL LANDING POINT LOCATION	— SURVEYED BOUNDARY	DRAWN BY: D. REED
⊙ EXISTING WATER WELL	----- LEASE BOUNDARY	SCALE: 1" = 2000'
⊙ EXISTING SPRING	— AS DRILLED PATH	DRAWING NO: 2017-221
	— PROPOSED PATH	WELL LOCATION PLAT

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	JANET L. HONECKER (LIFE ESTATE), AND ELIZABETH H. HESTICK (REMAINDER), (S)/(R)	03-L04-0124.0000	50.287
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	PAUL M. MCKAY & DEBORAH A. MCKAY	03-L04-0001.0000	159.147
3	JANET L. HONECKER (LIFE ESTATE), AND ELIZABETH H. HESTICK (REMAINDER ½ INTEREST); AND PAUL M. MCKAY, AND DEBORAH A. MCKAY (½ INTEREST)	03-L04-0123.0000	14.640
4	RACHEL ANN SINCAVICH	03-L04-0002.0000	11.005
5	JOSEPH E. BISHOP, III & HOLLIE L. BISHOP	03-L04-0002.0003	1.2687
6	SHAWN D. WEST AND AMANDA WEST	03-L04-0002.0006	1.130
7	PAUL F. ADAMS	03-L04-0105.0014	3.509
8	PAUL F. ADAMS	03-L04-0105.0016	1.000
9	HOLLAND PARK, LLC	03-L04-0105.0000	141.820
10	DOROTHY A. WINESDORFFER	03-L04-0105.0015	0.670
11	GARY V. HAND	03-L04-0096.0000	2.641
12	BELLE LANE, LLC	03-L04-0109.0000	204.000
13	ROBERT J. GRIMES	03-L07-0003.0000	28.210

05/31/2019



ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	BENJAMIN R. HONECKER	03-L01-0042.0000	97.70
B	JANET L. HONECKER & ELIZABETH HONECKER	03-L04-0103.0000	158.99
C	JANET L. HONECKER (LIFE ESTATE) AND ELIZABETH H. HESTICK (REMAINDER)	03-L04-0104.0004	1.956
D	BENJAMIN R. HONECKER & ELIZ. R. HONECKER	03-L04-0104.0000	126.00
E	MICHAEL E. SAMPSON	03-L04-0105.0000	3.59
F	LORI JO MCGLUMPHY	03-L04-0110.0000	310.55
G	DIXIE M. LAUDERMILT & L. LAUDERMILT	03-L04-0106.0001	0.19
H	DIXIE M. LAUDERMILT	03-L04-0105.0008	9.50
I	WINDSOR POWER HOUSE COAL COMPANY	03-L04-0105.0007	3.81
J	MICHAEL J. MILLER & P.T. MILLER	03-L04-0117.0000	139.51
K	DELBERT K. MYERS JR. & L.K. MYERS	03-L04-0107.0000	3.43
L	RUDY FAZZINI JR. & J.A. FAZZINI	03-L04-0105.0003	0.65
M	RUDY FAZZINI JR. & J.A. FAZZINI	03-L04-0105.0009	0.20
N	RICARDO PACHECO & D.L. BUMBAUGH	03-L04-0105.0010	1.08
O	LEE J. DUVALL & M.B. DUVALL	03-L04-0105.0011	2.99
P	JOHN C. MYERS & A.F. MYERS	03-L04-0108.0000	3.68
Q	EDWARD L. STUPAK & B.W. STUPAK	03-L04-0118.0001	23.60
R	WAYNE L. WILHELM & M.B. WILHELM	03-L07-0004.0000	184.76
S	ROBERT W. LASCH & D. LASCH	03-L07-0016.0000	80.46
T	KATHY GREEN	03-L07-0003.0001	5.00
U	MARY ELLEN BURKHART	03-L07-0003.0002	5.00
V	HERMAN J. STORCH & MARY C. STORCH	03-L07-0002.0000	130.70
W	CATHERINE EVANS & DAVID EVANS	03-L04-0013.0001	27.54
X	DAVID R. KELLER & MARTIE A. KELLER	03-L04-0013.0002	1.44
Y	MARTIE A. MORSE	03-L04-0100.0000	1.62
Z	THOMAS N. PENTINO & G.L. PENTINO	03-L04-0099.0000	1.47
AA	EDWARD CIHY & L.K. CIHY	03-L04-0097.0000	2.66
AB	EDWARD CIHY & L.K. CIHY	03-L04-0068.0000	1.36
AC	CLARENCE J. MOORE & K.S. MOORE	03-L04-0067.0000	0.77
AD	JOHN E. WINESDORFFER & R.M. WINESDORFFER	03-L04-0105.0002	2.80
AE	DAVID R. HANNA & CARRIE A. HANNA	03-L04-0105.0006	2.07
AF	ARLIE R. MCCARDLE JR. & BOND B. MCCARDLE	03-L04-0105.0017	1.19
AG	DORA M. MCCARDLE	03-L04-0105.0013	1.06
AH	THOMAS E. WILEY & HOLLY J. WILEY	03-L04-0002.0004	1.35
AI	DONALD FRAZIER & LINDA FRAZIER	03-L04-0002.0002	1.31
AJ	LLOYD COTTRELL & EDITH COTTRELL	03-L04-0002.0005	1.21
AK	DOUGLAS E. FARMER JR.	03-L04-0002.0008	0.40
AL	DOUGLAS E. FARMER JR.	03-L04-0002.0001	1.07
AM	LARRY M. MICHELANGELO	03-L04-0002.0007	1.31
AN	MICHAEL D. WINESDORFFER & G.L. WINESDORFFER	03-L04-0055.0000	0.60
AO	WILLIAM N. HOGAN JR. & S.C. HOGAN	03-L04-0028.0000	0.64
AP	RICHARD T. CROW & P.K. CROW	03-L04-0027.0000	0.47
AQ	RICHARD T. CROW & P.K. CROW	03-L04-0026.0000	0.50
AR	FRANK J. HARRAR & I.W. HARRAR	03-L04-0004.0000	3.70
AS	ROSS CARNAHAN & CORDELIA CARNAHAN (LIFE ESTATE)	03-L04-0001.0004	1.00
AT	MICHELLE L. ROSS	03-L04-0001.0005	1.00
AU	REBECCA L. BLAKE	03-L04-0001.0002	1.00
AV	REBECCA L. BLAKE	03-L04-0001.0007	0.50
AW	LILLIAN W. BROWN, TRUST	03-L04-0001.0001	123.28
AX	CLAIRE M. CAVENEY	04-R09-0003.0000	93.39
AY	PAUL M. MCKAY & DEBORAH A. MCKAY	04-R09-0051.0000	12.33
AZ	PAUL M. MCKAY	03-L04-0001.0006	1.00

REVISIONS:	COMPANY:	 	
	OPERATOR'S	BENJAMIN HONECKER OHI	
	WELL #:	6H	
	DISTRICT:	COUNTY:	STATE:
	LIBERTY	OHIO	WV
		DATE: 03-14-2019	API NO: 47-069-00243
		DRAWN BY: D. REED	SCALE: N/A
		DRAWING NO: 2017-221	WELL LOCATION PLAT

05/31/2019

WELL BORE TABLE FOR SURFACE \ ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) \ ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	JANET L. HONECKER (LIFE ESTATE), AND ELIZABETH H. HESTICK (REMAINDER), (S)\(R)	03-L04-0124.0000	20.287
2	PAUL M. MCKAY & DEBORAH A. MCKAY	03-L04-0001.0000	129.147
3	JANET L. HONECKER (LIFE ESTATE), AND ELIZABETH H. HESTICK (REMAINDER) & INTEREST; AND PAUL M. MCKAY, AND DEBORAH A. MCKAY (S INTEREST)	03-L04-0123.0000	14.840
4	RACHEL ANN SINCAVICH	03-L04-0002.0000	11.002
5	JOSEPH E. BISHOP, III & HOLLE L. BISHOP	03-L04-0002.0003	1.2887
6	SHAWN D. WEST AND AMANDA WEST	03-L04-0002.0008	1.130
7	PAUL F. ADAMS	03-L04-0102.0014	2.209
8	PAUL F. ADAMS	03-L04-0102.0018	1.000
9	HOLLAND PARK, LLC	03-L04-0102.0000	141.820
10	DOROTHY A. WINESDORFFER	03-L04-0102.0012	0.870
11	GARY V. HAND	03-L04-0088.0000	2.841
12	BELLE LAKE, LLC	03-L04-0108.0000	204.000
13	ROBERT J. GRIMES	03-L07-0003.0000	28.210

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	BENJAMIN R. HONECKER	03-L01-0042.0000	97.70
B	JANET L. HONECKER & ELIZABETH HONECKER	03-L04-0102.0000	128.99
C	JANET L. HONECKER (LIFE ESTATE) AND ELIZABETH H. HESTICK (REMAINDER)	03-L04-0104.0004	1.928
D	BENJAMIN R. HONECKER & ELIZ. R. HONECKER	03-L04-0104.0000	128.00
E	MICHAEL E. SAMPSON	03-L04-0102.0000	2.29
F	LORI JO MCGILMPHY	03-L04-0110.0000	210.22
G	DIXIE M. LAUDERMILT & L. LAUDERMILT	03-L04-0108.0001	0.19
H	DIXIE M. LAUDERMILT	03-L04-0102.0008	9.20
I	WINDSOR POWER HOUSE COAL COMPANY	03-L04-0102.0007	2.81
J	MICHAEL J. MILLER & P.T. MILLER	03-L04-0112.0000	129.21
K	DELBERT K. MYERS JR. & L.K. MYERS	03-L04-0107.0000	2.42
L	RUDY FAZZINI JR. & J.A. FAZZINI	03-L04-0102.0002	0.82
M	RUDY FAZZINI JR. & J.A. FAZZINI	03-L04-0102.0008	0.20
N	RICARDO PACHECO & D.L. BUMBACH	03-L04-0102.0010	1.08
O	LEE J. DUVALL & M.B. DUVALL	03-L04-0102.0011	2.99
P	JOHN C. MYERS & A.F. MYERS	03-L04-0108.0000	2.88
Q	EDWARD J. STUPAK & B.W. STUPAK	03-L04-0118.0001	22.80
R	WAYNE L. WILHELM & M.B. WILHELM	03-L07-0004.0000	184.78
S	ROBERT W. LASCH & D. LASCH	03-L07-0018.0000	80.48
T	KATHY GREEN	03-L07-0002.0001	2.00
U	MARY ELLEN BURKHART	03-L07-0002.0002	2.00
V	HERMAN J. STORCH & MARY C. STORCH	03-L07-0002.0000	120.70
W	CATHERINE EVANS & DAVID EVANS	03-L04-0012.0001	22.24
X	DAVID R. KELLER & MARTIE A. KELLER	03-L04-0012.0002	1.44
Y	MARTIE A. MORSE	03-L04-0100.0000	1.82
Z	THOMAS N. PENTINO & G.L. PENTINO	03-L04-0089.0000	1.47
AA	EDWARD CITY & L.K. CITY	03-L04-0097.0000	2.88
AB	EDWARD CITY & L.K. CITY	03-L04-0088.0000	1.28
AC	CLARENCE J. MOORE & K.S. MOORE	03-L04-0087.0000	0.77
AD	JOHN E. WINESDORFFER & R.M. WINESDORFFER	03-L04-0102.0002	2.80
AE	DAVID R. HANNA & CARRIE A. HANNA	03-L04-0102.0006	2.07
AF	ARLE R. MCGARDLE JR. & BOND B. MCGARDLE	03-L04-0102.0017	1.19
AG	DORA M. MCGARDLE	03-L04-0102.0012	1.08
AH	THOMAS E. WILEY & HOLLY J. WILEY	03-L04-0002.0004	1.22
AI	DONALD FRAZIER & LINDA FRAZIER	03-L04-0002.0002	1.21
AJ	LLOYD COTTRELL & EDITH COTTRELL	03-L04-0002.0002	1.21
AK	DOUGLAS E. FARMER JR.	03-L04-0002.0008	0.40
AL	DOUGLAS E. FARMER JR.	03-L04-0002.0001	1.07
AM	LARRY M. MICHELANGELO	03-L04-0002.0007	1.21
AN	MICHAEL D. WINESDORFFER & G.L. WINESDORFFER	03-L04-0022.0000	0.80
AO	WILLIAM N. HOGAN JR. & S.C. HOGAN	03-L04-0028.0000	0.84
AP	RICHARD T. CROW & P.K. CROW	03-L04-0022.0000	0.47
AQ	RICHARD T. CROW & P.K. CROW	03-L04-0028.0000	0.20
AR	FRANK J. HARRAR & I.W. HARRAR	03-L04-0004.0000	2.70
AS	ROSS CARANAHAN & CORDELIA CARANAHAN (LIFE ESTATE)	03-L04-0001.0004	1.00
AT	MICHELLE L. ROSS	03-L04-0001.0002	1.00
AU	REBECCA L. BLAKE	03-L04-0001.0002	1.00
AV	REBECCA L. BLAKE	03-L04-0001.0007	0.20
AW	LILLIAN W. BROWN, TRUST	03-L04-0001.0001	122.28
AX	CLAIRE M. CAVENEY	04-R08-0002.0000	92.39
AY	PAUL M. MCKAY & DEBORAH A. MCKAY	04-R08-0021.0000	12.22
AZ	PAUL M. MCKAY	03-L04-0001.0008	1.00

		COMPANY:	
		OPERATOR'S	BENJAMIN HONECKER OHI
DATE: 03-14-2019	API NO: 47-089-00243	WELL #:	GH
DRAWN BY: D. REED	SCALE: N/A	DISTRICT:	OHIO
DRAWING NO: 2017-221	WELL LOCATION PLAT	LIBERTY	STATE: WV
PROPERTY NUMBER 2501188021 PAD ID 2001122804		REVISIONS:	