

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452

Jim Justice, Governor Austin Caperton, Cabinet Secretary www.dep.wv.gov

Monday, September 11, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for BENJAMIN HONECKER OHI 6H

47-069-00243-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A. Martin Chief

Operator's Well Number: BENJAMIN HONECKER OHI 6H

Farm Name: JANET L. HONECKER & ELEZABETH H. HESTICK

U.S. WELL NUMBER: 47-069-00243-00-00

Horizontal 6A / New Drill

Date Issued: 9/11/2017

Promoting a healthy environment.

API Number:	

PERMIT CONDITIONS

047-069-00243

West Virginia Code § 22-6A-8(d) allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

- 1. This proposed activity may require permit coverage from the United States Army Corps of Engineers (USACE). Through this permit, you are hereby being advised to consult with USACE regarding this proposed activity.
- 2. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code § 22-6A-5a (12), which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than one hundred (100) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 3. When compacting fills, each lift before compaction shall not be more than 12 inches in height, and the moisture content of the fill material shall be within limits as determined by the Standard Proctor Density test of the actual soils used in specific engineered fill, ASTM D698, Standard Test Method for Laboratory Compaction Characteristics of Soil Using Standard Effort, to achieve 95 % compaction of the optimum density. Each lift shall be tested for compaction, with a minimum of two tests per lift per acre of fill. All test results shall be maintained on site and available for review.
- 4. Operator shall install signage per § 22-6A-8g (6) (B) at all source water locations included in their approved water management plan within 24 hours of water management plan activation.
- 5. Oil and gas water supply wells will be registered with the Office of Oil and Gas and all such wells will be constructed and plugged in accordance with the standards of the Bureau for Public Health set forth in its Legislative rule entitled *Water Well Regulations*, 64 C.S.R. 19. Operator is to contact the Bureau of Public Health regarding permit requirements. In lieu of plugging, the operator may transfer the well to the surface owner upon agreement of the parties. All drinking water wells within fifteen hundred feet of the water supply well shall be flow tested by the operator upon request of the drinking well owner prior to operating the water supply well.
- 6. Pursuant to the requirements pertaining to the sampling of domestic water supply wells/springs the operator shall, no later than thirty (30) days after receipt of analytical data provide a written copy to the Chief and any of the users who may have requested such analyses.
- 7. 24 hours prior to the initiation of the completion process the operator shall notify the Chief or his designee.
- 8. During the completion process the operator shall monitor annular pressures and report any anomaly noticed to the chief or his designee immediately.
- 9. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
- 10. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.

API Number:	
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047-069-00243

PERMIT CONDITIONS

11. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

API NO. 47-069 -		
OPERATOR WELL	NO.	Benjamin Honecker OHI 6H
Well Pad Name:	Benjan	nin Honecker OHI PAD

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

1) 111 11 0	CIVINI De	advetion C	- 110	404E1202	14		0.11	-1-2-1-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-2-
1) Well Operator	r: SWIN PI	bauction C	0., LLC	49451292		069-Ohio		247-Bethany
2) Operator's W	ell Number:	Benjamin H	lonecker	Operator 1		County Name: Benj	District amin Honed	Quadrangle ker OHI PAD
3) Farm Name/S	urface Own	er: Benjam	in Hone	cker Publ	ic Road	d Access: Sh	ort Creek R	oad
4) Elevation, cur	rent ground:	1104'	E	levation, pro	posed p	oost-construct	ion: 1104'	
	(a) Gas X		Oil _			rground Stora	-	
(Shallow	x	De	ер		100	
6) Existing Pad:		Horizontal No	<u>X</u>			5 24	17	
7) Proposed Targ Target Formation	get Formatio n- Marcellus, T	n(s), Depth(arget Top TVD	s), Antic	ipated Thick	ness and	nd Expected P	ressure(s):	ociated Pressure- 3547
8) Proposed Tota			116 31	3N	10019.		48,80	
9) Formation at 7			1arcellus	S				
10) Proposed To	tal Measured	Depth: 1	4478'					
11) Proposed Ho	rizontal Leg	Length: 8	194.2'					
12) Approximate	Fresh Wate	r Strata Dep	ths:	320'				
13) Method to D 14) Approximate			_	offset wells;	WR-3	5; petrophysi	cal salinity	orofile
15) Approximate	Coal Seam	Depths: 26	7'					
16) Approximate				ine, karst, otl	her): N	lone that we	are aware	of.
17) Does Propos directly overlyin	ed well loca g or adjacen	tion contain to an active	coal sea	ms Yes		No	, X	
(a) If Yes, prov	ride Mine In	o: Name:						
		Depth:						
		Seam:						
		Owner:						

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WW-6B (04/15)

API NO. 47- 069

OPERATOR WELL NO. Benjamin Honecker OHI 6H

Well Pad Name: Benjamin Honecker OHI PAD

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	420'	420'	410 sx/CTS
Coal	9 5/8"	New	J-55	36#	1642'	1642'	631 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	14478'	14478'	lead 80.8sx Tail 2044sx Inside Intermedia
Tubing	2 3/8"	New	HCP-110	4.7#	Approx. 5905'	Approx. 5905'	
Liners							

C BED 5-27-17

TYPE	Size (in)	Wellbore Diameter (in)	<u>Wall</u> <u>Thickness</u> (in)	Burst Pressure (psi)	Anticipated Max. Internal Pressure (psi)	Cement Type	<u>Cement</u> <u>Yield</u> (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing	2 3/8"	4.778"	0.190	Approx 8193'	Approx 8193'		
Liners							

PACKERS

Kind:	10K Arrowset AS-1X	
Sizes:	5 1/2"	
Depths Set:		

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WV Department of Environmental Protection

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API NO. 47- 069

OPERATOR WELL NO. Benjamin Honecker OHI 6H
Well Pad Name: Benjamin Honecker OHI PAD

19) Describe proposed well work, including the drilling and plugging back of any pilot hole:

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface. Run casing not less than 20' below void nor more than 50' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50' below and cts.)

20) Describe fracturing/stimulating methods in detail, including anticipated max pressure and max rate:

Well will be perforated within the target formation and stimulated with a slurry of water, sand, and chemical additives at a high rate. This will be performed in stages with the plug and perf method along the wellbore until the entire lateral has been stimulated within the target formation. All stage plugs are then drilled out and the well is flowed back to surface. The well is produced through surface facilities consisting of high pressure production unites, vertical separation units, water and oil storage tanks. Max press and anticipated max rate- 9000 lbs @ 80 barrels a minute.

- 21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 10.54
- 22) Area to be disturbed for well pad only, less access road (acres): 5.96
- 23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

24) Describe all cement additives associated with each cement type:

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See Attachment ***

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WV Department of Environmental Protection

25) Proposed borehole conditioning procedures:

All boreholes will be conditioned with circulation and rotation for a minimum of one bottoms up and continuing until operator is satisfied with borehole conditions.

*Note: Attach additional sheets as needed.

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09/15/2017

R2 wV+



SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2359 www.swn.com

May 31, 2017

Ms. Laura Adkins Office of Oil & Gas 601 57th Street Charleston, WV 25304

RE: Proposed New Well Benjamin Honecker OHI 6H

Dear Ms. Adkins

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Honecker's property, in Liberty District, Ohio County, West Virginia.

If you have any questions or desire additional information, please me at 304-884-1614

Thank you.

Sincerely

Dee Southall

Regulatory Supervisor

Southwestern Energy Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

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JUN 1 3 2017

WV Department of Environmental Protection

R2 NV+

Schlumberger Cement Additives

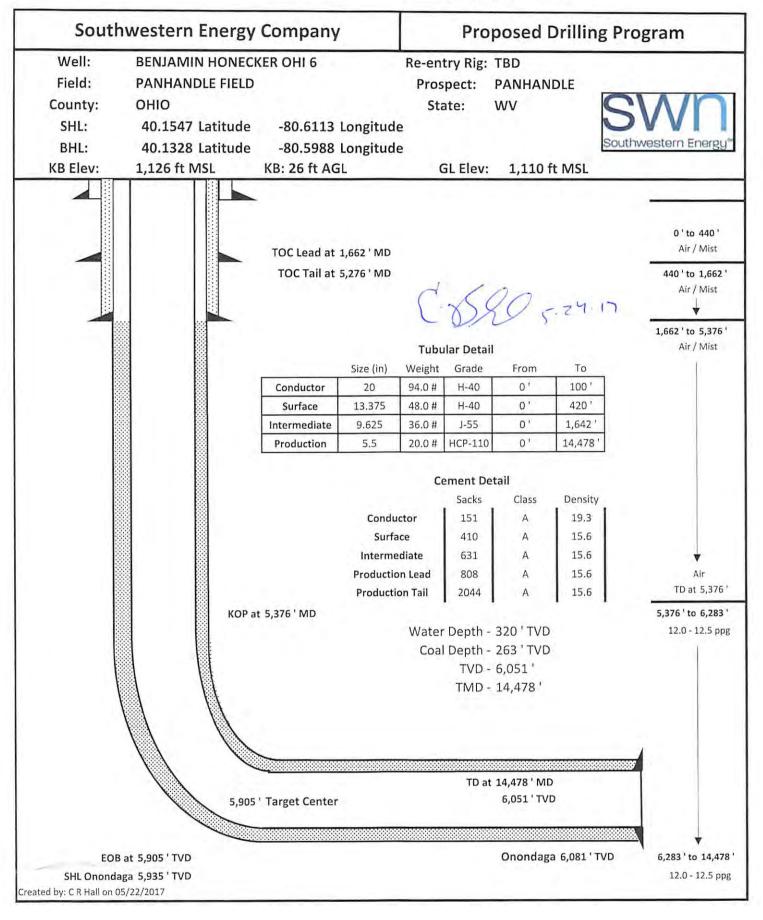
	Product Name		di : 10	
	rioduct Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
Intermediate Surface	S001	accelerator	calcium chloride	10043-52-4
_	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
õ."	D801	retarder	aromatic polymer derivative	propriatary
Kick Off Plug	D047	antifoam	polypropylene glycol	25322-69-4
	D167	fluid loss	aliphatic amide polymer	propriatary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
			polypropylene glycol	25322-69-4
Pag	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
Ct;	D201	retarder	metal oxide	propriatary
πpc	ŀ		sulphonated synthetic polymer	propriatary
- 5	D202	dispersant	formaldehyde (impurity)	propriatary
			polypropylene glycol	25322-69-4
	D046	antifoam	fullers earth (attapulgite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	propriatary
ਜ਼			sodium polynaphthalene sulfonate	9008-63-3
1 <u>-</u> 6	D065	dispersant	sodium sulfate	7757-82-6
Production-Tall			chrystalline silica	14808-60-7
og.	D201	retarder	metal oxide	propriatary
2	D153	anti-settling	chrystalline silica	14808-60-7

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JUN 1 3 2017

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JUN 1 3 2017



WW-9 (4/16)

JUN 1 3 2017

API Number 47 - 69

Operator's Well No. Benjamin Honecker OHI 6H

WV Department of Environmental Protection

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

FLUIDS/ CUTTINGS DISPOSA	L & RECLAMATION PLAN
Operator Name SWN Production Company, LLC	OP Code 494512924
Watershed (HUC 10)_ Buffalo Creek	Quadrangle Bethany
Do you anticipate using more than 5,000 bbls of water to complete the Will a pit be used? Yes No	he proposed well work? Yes 🗸 No
If so, please describe anticipated pit waste: closed loop sys	em in place at this time- cuttings will be taken to a permitted landfill
Will a synthetic liner be used in the pit? Yes No	If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:	
Off Site Disposal (Supply form WW-9 for	, API # will be included with the WR-34/DDMR &/or permit addendum
Will closed loop system be used? If so, describe: yes	
Drilling medium anticipated for this well (vertical and horizontal)?	Air, freshwater, oil based, etc. air drill to KOP, fluid drill with SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. synthetic	c oil base
Additives to be used in drilling medium? see attached sheets	
Drill cuttings disposal method? Leave in pit, landfill, removed offsi	te, etclandfill
-If left in pit and plan to solidify what medium will be used	? (cement, lime, sawdust)
-Landfill or offsite name/permit number?	SWF-4902, Northwestern SWF-1025, Short Creek 1034WV0109517/ClD28726, Carbon Limeston 28726-ClD28726 VVIGE 3839U/CID3839U, PINE Grove 13688
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided with where it was properly disposed.	f any load of drill cuttings or associated waste rejected at any
on August 1, 2005, by the Office of Oil and Gas of the West Virginiprovisions of the permit are enforceable by law. Violations of any law or regulation can lead to enforcement action. I certify under penalty of law that I have personally exa application form and all attachments thereto and that, based on obtaining the information, I believe that the information is true, penalties for submitting false information, including the possibility of Company Official Signature Company Official (Typed Name) Dee Southall	term or condition of the general permit and/or other applicable mined and am familiar with the information submitted on this my inquiry of those individuals immediately responsible for accurate, and complete. I am aware that there are significant
Company Official Title Regulatory Supervisor	
Subscribed and sworn before me this 330 day of Multiply R Word My commission expires 11717	Notary Public Notary No

Operator's Well No. Benjamin Honecker OHI 6H

Proposed Revegetation Treatment: Acres Disturbed	1 10.54	Prevegetation p	H
Lime as determined by pH test min. 2 Tons/acre or to co			
Fertilizer type 10-20-20			
Fertilizer amount 600	lbs/acre		
Mulch Hay/Straw 2.5	Tons/acre		
	Seed Mixtures		
Temporary		Perm	anent
Seed Type lbs/acre **See Attachment		Seed Type	lbs/acre
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied,	land application (unle , include dimensions (l	ss engineered plans inclu L x W x D) of the pit, an	nding this info have been d dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area.	, include dimensions ()	ss engineered plans inclu L x W x D) of the pit, an	iding this info have been d dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic should be considered as a section of involved 7.5' topographic should be considered.	, include dimensions ()	ss engineered plans inclu L x W x D) of the pit, an	iding this info have been d dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic sheet and approved by:	, include dimensions (l	ss engineered plans inclu L x W x D) of the pit, an	nding this info have been d dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, creage, of the land application area. Photocopied section of involved 7.5' topographic sheet and approved by:	, include dimensions (l	L x W x D) of the pit, an	riding this info have been d dimensions (L x W), and a second of the sec
Attach: Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet and approved by: Comments:	, include dimensions (l	L x W x D) of the pit, an	d dimensions (L x W), and a
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet application area.	, include dimensions (l	L x W x D) of the pit, an	d dimensions (L x W), and a RECEIVED Office of Oil and Gas
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet application area.	, include dimensions (l	L x W x D) of the pit, an	RECEIVED Office of Oil and Gas JUN 1 3 2017
Maps(s) of road, location, pit and proposed area for provided). If water from the pit will be land applied, acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet application area.	, include dimensions (l	L x W x D) of the pit, an	RECEIVED Office of Oil and Gas JUN 1 3 2017

Drilling Mediums

Brine
Barite
Calcium Chloride
Lime
Organophilic Bentonite
Primary and Secondary Emulsifiers
Gilsonite
Calcium Carbonate
Friction Reducers

Synthetic Oil

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JUN 1 3 2017



WVD Seeding Specification



To Order Seed contact Lyndsi Eddy Flippo office 570-996-4271 cell 501-269-5451 lyndsi_eddy@swn.com

(please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES

Holt ofter bile i her sixtes			
Seed Mixture: ROW Mix			SWN Supplied
Orchardgrass		40%	
Timothy		15%	
Annual Ryegrass	2.	15%	
Brown Top Millet		5%	
Red Top		5%	
Medium Red Clover		5%	All legumes are
White Clover		5%	innoculated at 5x normal
Birdsfoot Trefoil		5%	rate
Rough Bluegrass		5%	
Apply @ 100lbs per acre April 16th- Oct. 14th			Apply @ 200lbs per acre Oct. 15th- April 15th PLUS

SOIL AMENDMENTS

10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
Control of the Contro	*unless otherwise dictated by soil test results

Seeding Calculation Information:

1452' of 30' ROW/LOD is One Acre 871' of 50' ROW/LOD is One Acre 622' of 70' ROW/LOD is One Acre

Synopsis:

Every 622 linear feet in a 70' ROW/LOD, you should be using (2) 50lb bags of seed, (4) 50lb bags of fertilizer and (80) 50lb bags of Lime (2x seed in winter months + 50lb Winter Wheat/ac).

Special Considerations:

Landowner Special Considerations including CREP program participants require additional guidance that is not given here. Discuss these requirements with SWN supervision at the beginning of the project to allow time for special seed delivery.

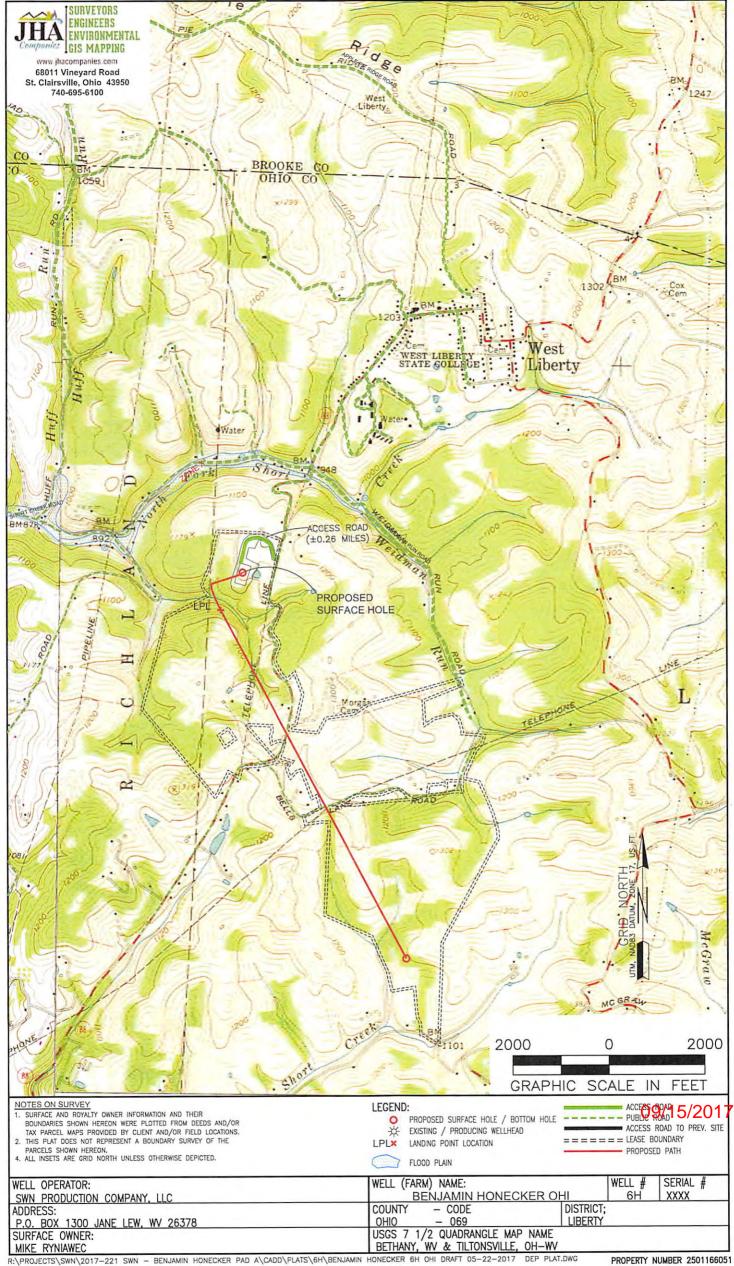
ORGANIC PROPERTIES

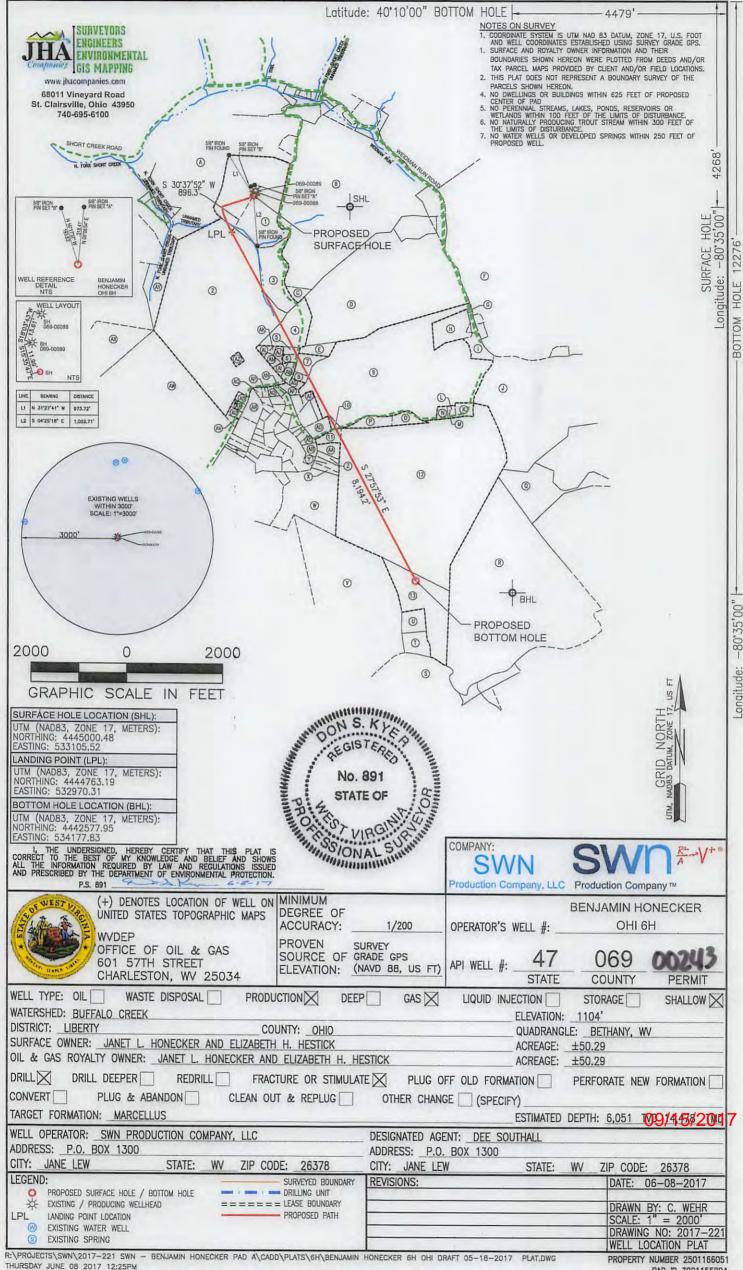
Seed Mixture: SWN Production Organic	Mix	SWN Supplied
Organic Timothy	50%	7
Organic Red or White Clover	50%	
OR		
Organic Perennial Ryegrass	50%	
Organic Red or White Clover	50%	
Apply @ 100lbs per acre		Apply @ 200lbs per acre
April 16th- Oct. 14th		Oct. 15th- April 15th
Organic Fertilizer @ 200lbs per Acre		Pelletized Lime @ 2 Tons per Acre

WETLANDS (delineated as jurisdictional wetlands)

Seed Mixture: Wetland Mix	SWN S	upplied
VA Wild Ryegrass	20%	
Annual Ryegrass	20%	
Fowl Bluegrass	20%	
Cosmos 'Sensation'	10%	
Redtop	5%	RECEIVED Office of Oil and Gas
Golden Tickseed	5%	o moo of on and das
Maryland Senna	5%	JUN 1 3 2017
Showy Tickseed	5%	
Fox Sedge	2.5%	WV Department of Environmental Protection
Soft Rush	2.5%	
Woolgrass	2.5%	
Swamp Verbena	2.5%	
Apply @ 25lbs per acre		Apply @ 50lbs per acre
April 16th- Oct. 14th		Oct. 15th- April 15th

NO FERTILIZER OR LIME INSIDE WETLAND LIMITS





Latitude: 40°10'00" SURFACE HOLE |-

7865

	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. WINIESDORFFER	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

TRACT	ADJOINING OWNERS TABLE SURFACE OWNER	TAX PARCEL	ACDE
A	BENJAMIN R. HONECKER	03-L01-0042.0000	ACRES
В	JANET L. HONECKER & ELIZABETH HONECKER	03-L04-0103.0000	97.70
С	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
Н	DIXIE M. LAUDERMILT	03-L04-0105.0008	9.50
1	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
М	RUDY FAZZINI JR. & J.A. FAZZINI	03-L04-0105.0009	0.20
N	RICARDO PACHECO & D.L. BUMBAUGH	03-L04-0105.0010	1.08
0	LEE J. DUVALL & M.B. DUVALL	03-L04-0105.0011	2.99
Р	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
٧	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. WINIESDORFFER & R.M. WINIESDORFFER	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
Al	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. WINIESDORFFER & G.L. WINIESDORFFER	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	123.2
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

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378

API NO. 47-XXX-XXXXX
WELL NAME: Benjamin Honecker OHI 6H
Bethany QUAD
Liberty DISTRICT
Ohio COUNTY, WEST VIRGINIA

Submitted by:		
Dee Southall	Date:	5/22/2017
Title: Regulatory Supervisor	SWN P	roduction Co., LLC
Approved by: Title: 01 + G., Eret	Date:	5 24-17
Approved by:	Date:	
Title:		
SWN PRODUCTION COMPANY,	LLC	

WW-6A1 (5/13) Operator's Well No. Benjamin Honecker OHI 6H

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6A, Section 5(a)(5) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page I of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that -

- the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Lease Name or				
Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
Se	ee Exhibit			

OCC LAINDIC

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JUN 1 3 2017

WV Department of Environmental Protection

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application hereby acknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- · WV Division of Natural Resources WV Division of Highways
- · U.S. Army Corps of Engineers
- · U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirms that all needed permits/approvals should be acquired from the appropriate authority before the affected activity is initiated.

well Operator.	SWN Production Company, LLC.	
By:	ROLL	
Its:	Landman	

Page 1 of

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Exhibit "A" Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator Benjamin Honecker OHI 6H Ohlo County, West Virginia

	TAX ID	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1	03-L4-124	Janet L. Honecker, a widow (Life Estate), and Elizabeth	50.287	730050-000	Janet L. Honecker, a widow, Life Estate, and Elizabeth H.	Great Lakes Energy Partners, L.L.C.	14.0%	779/138
		H. Hestick (Remainder)		1-324184-000	Hestick, a married woman dealing in her sole and	Chesapeake Appalachia, L.L.C.		808/391
_ _					separate property, Remainderman	SWN Production Company, LLC		883/515
2	03-L4-1	Paul M. McKay and Deborah A. McKay	159.147	730240-000	Douglas McKay, a widower, and Paul McKay and	Fortuna Energy Inc.	12.5%	772/521
				1-324739-000	Deborah A. McKay, husband and wife	Range Resources - Appalachia, LLC		786/406
						Chesapeake Appalachia, L.L.C.		808/493
						SWN Production Company, LLC		883/539
<u>- </u>	03-L4-123	Janet L. Honecker, a widow (Life Estate), and Elizabeth	14.64	736299-001	Janet L. Honecker (Life Estate Interest), a widow, and	Chesapeake Appalachia, L.L.C.	18.0%	829/107
		H. Hestick (Remainder) (1/2 interest); and Paul M.		47-000936-001	Elizabeth H. Hestick (Remainder Interest) a single	SWN Production Company, LLC		885/656
		McKay and Deborah A. McKay (1/2 interest)			woman			
		many and bedaran is many (2/2 micrest)						
3	03-L4-123	Janet L. Honecker, a widow (Life Estate), and Elizabeth	14.64	731299-001	Paul M. McKay and Deborah A. McKay, husband and	Chesapeake Appalachia, L.L.C.	18.0%	813/657
	····	H. Hestick (Remainder) (1/2 interest); and Paul M.		1-329236-000	wife	SWN Production Company, LLC		883/575
	·	McKay and Deborah A. McKay (1/2 Interest)						
	03-L4-2	Rachel Ann Sincavich	11.005	737254-000	Rachel Ann Sincavich, a widow	Chesapeake Appalachia, L.L.C.	18.0%	837/402
				47-001902-000		SWN Production Company, LLC		885/728
L	03-L4-2.3	Joseph E. Bishop, III, and Hollie L. Bishop	1.2687	729673-000	Joseph E. Bishop III and Hollie L. Bishop, husband and	Chesapeake Appalachia, L.L.C.	18.0%	812/46
				1-322000-000	wife	SWN Production Company, LLC		883/515
	03-L4-2.6	Shawn D. West and Amanda West	1.13	738235-000	Patricia C. Franklin, a single woman	Chesapeake Appalachia, L.L.C.	14.0%	845/121
				47-002891-000		SWN Production Company, LLC		885/752
<u>' </u>	03-L4-105.14	Paul F. Adams	3.509	736182-000	Elizabeth Ann Baker, a widow	Chesopeake Appalachia, L.L.C.	12.5%	828/277
				47-000813-000		SWN Production Company, LLC		885/644
1	03-L4-105.16	Paul F. Adams	1.00	729147-000	Paul F. Adams, a single man	Chesapeake Appalachia, L.L.C.	18.0%	809/302
				1-312920-000		SWN Production Company, LLC		884/61
	03-L4-105	Holland Park, LLC	141.82	730241-000	Holland Park, Limited Liability Corporation: By - Lee Paull	Fortuna Energy Inc.	12.5%	772/523
				1-324741-000	III, Member	Range Resources - Appalachia, LLC		786/418
						Chesapeake Appalachia, L.L.C.		808/493
						SWN Production Company, LLC		883/539
)	03-L4-105.15	Dorothy A. Winlesdorffer	0.67	735482-000	Dorothy A. Winlesdorffer, a widow	Chesapeake Appalachia, L.L.C.	18.0%	817/301
				47-000099-000		SWN Production Company, LLC	20.07	885/548
l	03-L4-96	Gary V. Hand	2.641	729468-000	Gary V. Hand, a single man	Chesapeake Appalachia, L.L.C.	18.0%	813/788
				1-313924-000		SWN Production Company, LLC	20.070	884/1
2	03-L4-109	Belle Lane, LLC	204.00	730236-000	Lee C. Pauli III and June W. Pauli h&w	Fortuna Energy Inc.	12.5%	766/362
				1-324732-000		Range Resources - Appalachia, LLC	******	786/348
						Chesapeake Appalachia, L.L.C.		808/500
						SWN Production Company, LLC		885/776
3]	03-L7-3	Robert J. Grimes	28.21	734018-001	Debag Colonia	NPAR, LLC	18.0%	815/407
				1-385493-001	Robert J. Grimes and Lorine S. Grimes, husband and wife	Chevron U.S.A. Inc.	20.070	827/299
						Chesapeake Appalachia, L.L.C.		867/713
T						SWN Production Company, LLC	_	883/730



SWN Production Company, LLC P O Box 12359 Spring, Texas 77391-2359 www.swn.com

June 8, 2017

Ms. Laura Adkins WV DEP Office of Oil & Gas 601 57th St., SE Charleston, WV 25304

RE: SWN's proposed New Well: Benjamin Honecker OHI 6H in Ohio County, West Virginia, Drilling under Bells Lane and Oglebay Drive.

Dear Ms. Adkins:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Bells Lane and Oglebay Drive. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,

Bradley Wilson

Landman

SWN Production Company, LLC

PO Box 12359

Spring, TX 77391-2359

10000 Energy Drive Spring, TX 77389-4954 R2 may +"

The Right People doing the Right Things, wisely investing the cash flow from our underlying Assets, will create Value+*

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JUN 1 3 2017

WW-6AC (1/12)

JUN 1 3 2017

WV Department of Environmental Protection STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE CERTIFICATION

Date of Notic	ce Certification:	A	PI No. 47	7_ 069 _	
		O	perator's	Well No. Benja	amin Honecker OHI 6H
		V	Vell Pad N	Name: Benjami	in Honecker OHI PAD
Notice has l					
	ne provisions in West Virginia Code	22-6A, the Operator has provide	ded the rec	juired parties v	with the Notice Forms listed
	tract of land as follows:				
State:	West Virginia		Easting:	533105.52	
County:	069-Ohio		Northing:	4445000.48	
District:	Liberty	Public Road Acces		Short Creek Roa	
Quadrangle:	Bethany	Generally used farr	n name:	Benjamin Honecl	ker
Watershed:	Buffalo Creek				
it has provide information r of giving the requirements Virginia Code	the secretary, shall be verified and sed the owners of the surface described equired by subsections (b) and (c), set surface owner notice of entry to surface owner notice of entry to surface owner notice of subsection (b), section sixteen of e § 22-6A-11(b), the applicant shall thave been completed by the applicant	ped in subdivisions (1), (2) and ction sixteen of this article; (ii) rvey pursuant to subsection (a) f this article were waived in we ender proof of and certify to the	d (4), substhat the re b, section by	section (b), sec quirement was ten of this arti the surface ov	ction ten of this article, the deemed satisfied as a result cle six-a; or (iii) the notice wner; and Pursuant to West
that the Ope	West Virginia Code § 22-6A, the Operator has properly served the require ECK ALL THAT APPLY		s Notice C	ertification	OOG OFFICE USE ONLY
				Sec. S	A9 400 0
□ 1. NO	TICE OF SEISMIC ACTIVITY or	SEISMIC ACTIVITY WAS			RECEIVED/ NOT REQUIRED
☐ 2. NO	TICE OF ENTRY FOR PLAT SURV	EY or NO PLAT SURVEY	WAS CO	ONDUCTED	☐ RECEIVED
■ 3. NO	TICE OF INTENT TO DRILL or	☐ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PL		Process of the Control of the Contro	RECEIVED/ NOT REQUIRED
		WRITTEN WAIVER BY (PLEASE ATTACH)	Y SURFA	CE OWNER	
■ 4. NO	TICE OF PLANNED OPERATION				RECEIVED
☐ 5 PUI	BLIC NOTICE				RECEIVED
6. NO	TICE OF APPLICATION				RECEIVED

Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication date verification or the associated Affidavit of Publication. The attached Notice Forms and Certifications of Notice shall serve as proof that the required parties have been noticed as required under West Virginia Code § 22-6A. Pursuant to West Virginia Code § 22-6A-11(b), the Certification of Notice to the person may be made by affidavit of personal service, the return receipt card or other postal receipt for certified mailing.

Certification of Notice is hereby given:

THEREFORE, I ________, have read and understand the notice requirements within West Virginia Code § 22-6A. I certify that as required under West Virginia Code § 22-6A, I have served the attached copies of the Notice Forms, identified above, to the required parties through personal service, by registered mail or by any method of delivery that requires a receipt or signature confirmation. I certify under penalty of law that I have personally examined and am familiar with the information submitted in this Notice Certification and all attachments, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Well Operator: SWN Production Co., LC

By: Dee Southal

Its: Regulatory Supervisor

Telephone: 304-884-1614

Address: P.O. Box 1300

Jane Lew, WV 26378

Facsimile:

Email:

Dee_Southall@swn.com



Subscribed and sworn before me this Q

Notary Public

My Commission Expires

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.

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JUN 1 3 2017

API NO. 47- 069 OPERATOR WELL NO. Benjamin Honecker OHI 6H
Well Pad Name: Benjamin Honecker OHI PAD

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION

Notice	e Time Requiren	nent: notice shall be provid	ded no later th	an the filing date of permit application.	•
	of Notice:	Date Permit Applicat	tion Filed:		RECEIVED Office of Oil and Gas
Notice	e of:				JUN 1 3 2017
	PERMIT FOR AN WELL WORK			PROVAL FOR THE AN IMPOUNDMENT OR PIT	WV Department of Environmental Protection
Delive	ery method pursi	uant to West Virginia Co	de § 22-6A-1	0(b)	
□ F	PERSONAL	☑ REGISTERED	П метн	IOD OF DELIVERY THAT REQUIRES	2 A
	SERVICE	MAIL		IPT OR SIGNATURE CONFIRMATIO	
oil and describ operate more considered well with the mount of the months of the months of the months of the mount of the	I gas leasehold being bed in the erosion appropriate or or lessee, in the coal seams; (4) The ork, if the surface nument or pit as dowater well, spring the water for consumed well work activation (b) of this section of this article to R. § 35-8-5.7.a recommendation to the same of t	ng developed by the propose and sediment control plan so event the tract of land on we cowners of record of the sur- tract is to be used for the plan escribed in section nine of the or water supply source local aption by humans or domest wity is to take place. (c)(1) If tion hold interests in the land uired to be maintained pursu to the contrary, notice to a lical puires, in part, that the opera	ed well work, i ubmitted pursu which the well p rface tract or tr acement, const his article; (5) a ated within one tic animals; and f more than thre ads, the applica uant to section en holder is not ator shall also p	ated; (2) The owners of record of the surfar f the surface tract is to be used for roads or ant to subsection (c), section seven of this a roposed to be drilled is located [sic] is known acts overlying the oil and gas leasehold be ruction, enlargement, alteration, repair, remainstrace owner or water purveyor who is thousand five hundred feet of the center of the context of (6) The operator of any natural gas storage tenants in common or other co-owners on the may serve the documents required upon eight, article one, chapter eleven-a of this contice to a landowner, unless the lien hold provide the Well Site Safety Plan ("WSSP" as provided in section 15 of this rule.	other land disturbance as article; (3) The coal owner, own to be underlain by one or ing developed by the proposed noval or abandonment of any is known to the applicant to f the well pad which is used to be field within which the of interests described in the person described in the code. (2) Notwithstanding any der is the landowner. W. Va.
☑ Ap	plication Notice	☑ WSSP Notice ☑E&	S Plan Notice	☑ Well Plat Notice is hereby provid	led to:
_	LFACE OWNER((s)		☐ COAL OWNER OR LESSEE	
	Janet L. Honecker			Name: Windsor Coal Company	
	SS: 163 Morgan Lane		_	Address: 2596 Battle Run Road	
	g, WV 26003		_	Triadelphia, WV 26059	
Name:		·	-	COAL OPERATOR	
Addre	ss:		_	Name:	
	EACE OWNIED	s) (Road and/or Other Dis	- turbanca)	Address:	
_			•	SURFACE OWNER OF WATER W	/ELI
Name. Addro	·		-	AND/OR WATER PURVEYOR(s)	LLL
Addie	ss		_		
Mama				Name: See Attachment #1	
м 44 1 чате:			-	Address:	
Aaare	ss:		_	TOPED ATOP OF ANN NATIONAL	CAS STORAGE FIELD
- CY 75	TACE OURIER	/_\	-	OPERATOR OF ANY NATURAL O	
Name:		s) (Impoundments or Pits)	_	Name:Address:	
Auare	ss:		-	*Please attach additional forms if nece	

WW-6A (8-13)

JUN 1 3 2017

API NO. 47-069 -00243
OPERATOR WELL NO. Benjamin Honocker OHI BH
Well Pad Name: Benjamin Honocker OHI PAD

WV Department of Environmental Protection

Notice is hereby given:

Pursuant to West Virginia Code § 22-6A-10(b), notice is hereby given that the undersigned well operator has applied for a permit for well work or for a certificate of approval for the construction of an impoundment or pit.

This Notice Shall Include:

Pursuant to W. Va. Code § 22-6A-10(b), this notice shall include: (1) copies of the application; (2) the erosion and sediment control plan required by section seven of this article; and (3) the well plat.

Pursuant to W. Va. Code § 22-6A-10(f), this notice shall include: (1) a statement of the time limits for filing written comments; (2) who may file written comments; (3) the name and address of the secretary for the purpose of filing the comments and obtaining additional information; and (4) a statement that the persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

Pursuant to W. Va. Code R. § 35-8-5.7.a, the operator shall provide the Well Site Safety Plan to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Pursuant to W. Va. Code R. § 35-8-15.2.c, this notice shall: (1) contain a statement of the surface owner's and water purveyor's right to request sampling and analysis; (2) advise the surface owner and water purveyor of the rebuttable presumption for contamination or deprivation of a fresh water source or supply; advise the surface owner and water purveyor that refusal to allow the operator to conduct a pre-drilling water well test constitutes a method to rebut the presumption of liability; (3) advise the surface owner and water purveyor of his or her independent right to sample and analyze any water supply at his or her own expense; advise the surface owner and water purveyor whether or not the operator will utilize an independent laboratory to analyze any sample; and (4) advise the surface owner and or water purveyor that he or she can obtain from the Chief a list of water testing laboratories in the subject area capable of and qualified to test water supplies in accordance with standard acceptable methods.

Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Well Location Restrictions

Pursuant to W. Va. Code § 22-6A-12, Wells may not be drilled within two hundred fifty feet measured horizontally from any existing water well or developed spring used for human or domestic animal consumption. The center of well pads may not be located within six hundred twenty-five feet of an occupied dwelling structure, or a building two thousand five hundred square feet or larger used to house or shelter dairy cattle or poultry husbandry. This limitation is applicable to those wells, developed springs, dwellings or agricultural buildings that existed on the date a notice to the surface owner of planned entry for surveying or staking as provided in section ten of this article or a notice of intent to drill a horizontal well as provided in subsection (b), section sixteen of this article was provided, whichever occurs first, and to any dwelling under construction prior to that date. This limitation may be waived by written consent of the surface owner transmitted to the department and recorded in the real property records maintained by the clerk of the county commission for the county in which such property is located. Furthermore, the well operator may be granted a variance by the secretary from these distance restrictions upon submission of a plan which identifies the sufficient measures, facilities or practices to be employed during well site construction, drilling and operations. The variance, if granted, shall include terms and conditions the department requires to ensure the safety and protection of affected persons and property. The terms and conditions may include insurance, bonding and indemnification, as well as technical requirements. (b) No well pad may be prepared or well drilled within one hundred feet measured horizontally from any perennial stream, natural or artificial lake, pond or reservoir, or a wetland, or within three hundred feet of a naturally reproducing trout stream. No well pad may be located within one thousand feet of a surface or ground water intake of a public water supply. The distance from the public water supply as identified by the department shall be measured as follows: (1) For a surface water intake on a lake or reservoir, the distance shall be measured from the boundary of the lake or reservoir. (2) For a surface water intake on a flowing stream, the distance shall be measured from a semicircular radius extending upstream of the surface water intake. (3) For a groundwater source, the distance shall be measured from the wellhead or spring. The department may, in its discretion, waive these distance restrictions upon submission of a plan identifying sufficient measures, facilities or practices to be employed during well site construction, drilling and operations to protect the waters of the state. A waiver, if granted, shall impose any permit conditions as the secretary considers necessary. (c) Notwithstanding the foregoing provisions of this section, nothing contained in this section prevents an operator from conducting the activities permitted or authorized by a Clean Water Act Section 404 permit or other approval from the United States Army Corps of Engineers within any waters of the state or within the restricted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any well on a multiple well pad if at least one of the wells was permitted prior to the effective date of this article. (e) The secretary shall, by December 31, 2012, report to the Legislature on the noise, light, dust and volatile organic compounds generated by the drilling of horizontal wells as they relate to the well location restrictions regarding occupied dwelling structures pursuant to this section. Upon a finding, if any, by the secretary that the well location restrictions regarding occupied dwelling structures are inadequate or otherwise require alteration to address the items

WW-6A (8-13)

API NO. 47-069

OPERATOR WELL NO. Benjamin Honecker OHI 6H
Well Pad Name: Benjamin Honecker OHI PAD

examined in the study required by this subsection, the secretary shall have the authority to propose for promulgation legislative rules establishing guidelines and procedures regarding reasonable levels of noise, light, dust and volatile organic compounds relating to drilling horizontal wells, including reasonable means of mitigating such factors, if necessary.

Water Well Testing:

Pursuant to West Virginia Code § 22-6A-10(d), notification shall be made, with respect to surface landowners identified in subsection (b) or water purveyors identified in subdivision (5), subsection (b) of this section, of the opportunity for testing their water well. The operator shall provide an analysis to such surface landowner or water purveyor at their request.

Water Testing Laboratories:

Pursuant to West Virginia Code § 22-6A-10(i), persons entitled to notice pursuant to subsection (b) of this section may contact the department to ascertain the names and locations of water testing laboratories in the subject area capable and qualified to test water supplies in accordance with standard accepted methods. In compiling that list of names the department shall consult with the state Bureau for Public Health and local health departments. A surface owner and water purveyor has an independent right to sample and analyze any water supply at his or her own expense. The laboratory utilized by the operator shall be approved by the agency as being certified and capable of performing sample analyses in accordance with this section.

Rebuttable Presumption for Contamination or Deprivation of a Fresh Water Source or Supply:

W. Va. Code § 22-6A-18 requires that (b) unless rebutted by one of the defenses established in subsection (c) of this section, in any action for contamination or deprivation of a fresh water source or supply within one thousand five hundred feet of the center of the well pad for horizontal well, there is a rebuttable presumption that the drilling and the oil or gas well or either was the proximate cause of the contamination or deprivation of the fresh water source or supply. (c) In order to rebut the presumption of liability established in subsection (b) of this section, the operator must prove by a preponderance of the evidence one of the following defenses: (1) The pollution existed prior to the drilling or alteration activity as determined by a predrilling or prealteration water well test. (2) The landowner or water purveyor refused to allow the operator access to the property to conduct a predrilling or prealteration water well test. (3) The water supply is not within one thousand five hundred feet of the well. (4) The pollution occurred more than six months after completion of drilling or alteration activities. (5) The pollution occurred as the result of some cause other than the drilling or alteration activity. (d) Any operator electing to preserve its defenses under subdivision (1), subsection (c) of this section shall retain the services of an independent certified laboratory to conduct the predrilling or prealteration water well test. A copy of the results of the test shall be submitted to the department and the surface owner or water purveyor in a manner prescribed by the secretary, (e) Any operator shall replace the water supply of an owner of interest in real property who obtains all or part of that owner's supply of water for domestic, agricultural, industrial or other legitimate use from an underground or surface source with a comparable water supply where the secretary determines that the water supply has been affected by contamination, diminution or interruption proximately caused by the oil or gas operation, unless waived in writing by that owner. (f) The secretary may order the operator conducting the oil or gas operation to: (1) Provide an emergency drinking water supply within twenty-four hours; (2) Provide temporary water supply within seventy-two hours; (3) Within thirty days begin activities to establish a permanent water supply or submit a proposal to the secretary outlining the measures and timetables to be used in establishing a permanent supply. The total time in providing a permanent water supply may not exceed two years. If the operator demonstrates that providing a permanent replacement water supply cannot be completed within two years, the secretary may extend the time frame on case-by-case basis; and (4) Pay all reasonable costs incurred by the real property owner in securing a water supply. (g) A person as described in subsection (b) of this section aggrieved under the provisions of subsections (b), (e) or (f) of this section may seek relief in court... (i) Notwithstanding the denial of the operator of responsibility for the damage to the real property owner's water supply or the status of any appeal on determination of liability for the damage to the real property owner's water supply, the operator may not discontinue providing the required water service until authorized to do so by the secretary or a court of competent jurisdiction.

Written Comment:

Pursuant to West Virginia Code § 22-6A-11(a), all persons described in subsection (b), section ten of this article may file written comments with the secretary as to the location or construction of the applicant's proposed well work within thirty days after the application is filed with the secretary. All persons described in West Virginia Code § 22-6A-10(b) may file written comments as to the location or construction of the applicant's proposed well work to the Secretary at:

RECEIVED
Office of Oil and Gas**

Chief, Office of Oil and Gas
Department of Environmental Protection
601 57th St. SE
Charleston, WV 25304
(304) 926-0450

JUN 1 3 2017

WV Department of Environmental Protection

Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water. NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT.

047-069-00243 API NO. 47-069

OPERATOR WELL NO. Benjamin Honecker OHI 6H

Well Pad Name: Benjamin Honecker OHI PAD

Time Limits and Methods for Filing Comments.

The law requires these materials to be served on or before the date the operator files its Application. You have THIRTY (30) DAYS after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

Pursuant to West Virginia Code § 22-6A-11(c)(2), Any objections of the affected coal operators and coal seam owners and lessees shall be addressed through the processes and procedures that exist under sections fifteen, seventeen and forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article. The written comments filed by the parties entitled to notice under subdivisions (1), (2), (4), (5) and (6), subsection (b), section ten of this article shall be considered by the secretary in the permit issuance process, but the parties are not entitled to participate in the processes and proceedings that exist under sections fifteen, seventeen or forty, article six of this chapter, as applicable and as incorporated into this article by section five of this article.

Comment Requirements

Your comments must be in writing and include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

Disclaimer: All comments received will be placed on our web site http://www.dep.wv.gov/oil-and-gas/Horizontal-Permits/Pages/default.aspx and the applicant will automatically be forwarded an email notice that such comments have been submitted. The applicant will be expected to provide a response to comments submitted by any surface owner, water purveyor or natural gas storage operator noticed within the application.

Permit Denial or Condition

The Chief has the power to deny or condition a well work permit. Pursuant to West Virginia Code § 22-6A-8(d), the permit may not be issued or be conditioned, including conditions with respect to the location of the well and access roads prior to issuance if the director determines that:

- (1) The proposed well work will constitute a hazard to the safety of persons:
- (2) The plan for soil erosion and sediment control is not adequate or effective:
- (3) Damage would occur to publicly owned lands or resources; or
- (4) The proposed well work fails to protect fresh water sources or supplies.

A permit may also be denied under West Virginia Code § 22-6A-7(k), the secretary shall deny the issuance of a permit if the secretary determines that the applicant has committed a substantial violation of a previously issued permit for a horizontal well, including the applicable erosion and sediment control plan associated with the previously issued permit, or a substantial violation of one or more of the rules promulgated under this article, and in each instance has failed to abate or seek review of the violation within the time prescribed by the secretary pursuant to the provisions of subdivisions (1) and (2), subsection (a), section five of this article and the rules promulgated hereunder, which time may not be unreasonable.

Pursuant to West Virginia Code § 22-6A-10(g), any person entitled to submit written comments to the secretary pursuant to subsection (a), section eleven of this article, shall also be entitled to receive from the secretary a copy of the permit as issued or a copy of the order modifying or denying the permit if the person requests receipt of them as a part of the written comments submitted concerning the permit application. Such persons may request, at the time of submitting written comments, notice of the permit decision and a list of persons qualified to test water.

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W/ Department of Engineera, at malection WW-6A (8-13) API NO. 47-069

OPERATOR WELL NO. Benjamin Honecker OHI 6H
Well Pad Name: Benjamin Honecker OHI PAD

Notice is hereby given by

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1614 Email: Dee_Southall@swn.com

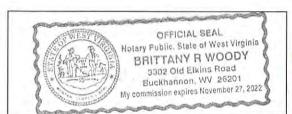
Jane Lew, WV 26378

Facsimile:

Address: P.O. Box 1300

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact DEP's Chief Privacy Officer at deprivacyofficer@wv.gov.



My Commission Expires

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JUN 1 3 2017





Benjamin Honecker OHI Pad - Water Purveyors w/in 1500'

Sources

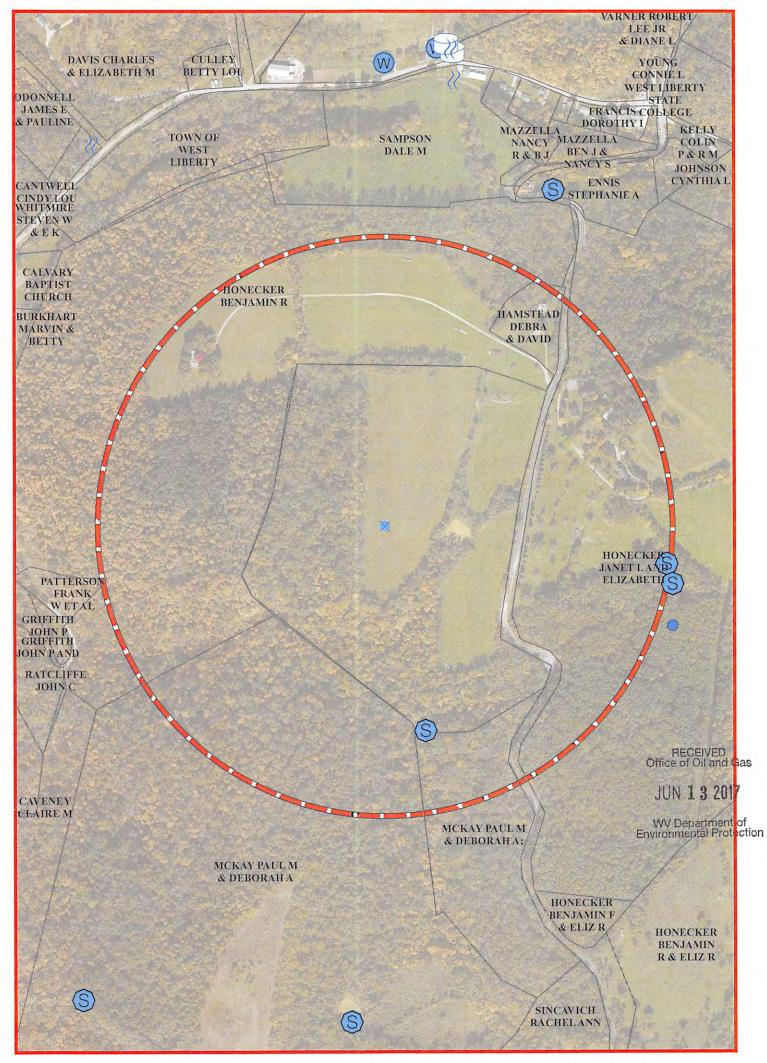
Landowner

Paul & Deborah McKay Janet & Elizabeth Honecker Address

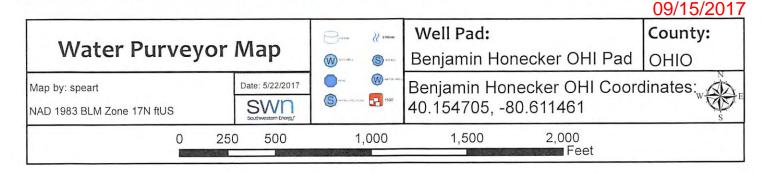
4404 Oglebay Drive, Wheeling, WV 26003 1 spring 163 Morgan Lane, Wheeling, WV 26003 2 springs

> RECEIVED Office of Oil and Gas

JUN 1 3 2017



The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.



STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF INTENT TO DRILL

Pursuant to W. Va. Code § 22-6A-16(b), the Notice of Intent to Drill is only required if the notice requirements of W. Va. Code § 22-6A-10(a) have NOT been met or if the Notice of Intent to Drill requirement has NOT been waived in writing by the surface owner.

Date of Noti			ast TEN (10) days prior to filing a t Application Filed:	permit application.
Delivery me	thod pursuant to We	est Virginia Code § 22-0	6A-16(b)	
☐ HAND	■ CER	TIFIED MAIL		
DELIVE	ERY RET	URN RECEIPT REQUI	ESTED	
receipt requent drilling a hor of this subsect subsection mand if availab	sted or hand delivery, izontal well: <i>Provide</i> stion as of the date the ay be waived in writile, facsimile number	, give the surface owner ed. That notice given pu e notice was provided to ng by the surface owner. and electronic mail addr	notice of its intent to enter upon the result to subsection (a), section to the surface owner: <i>Provided, how</i> . The notice, if required, shall includes of the operator and the operator	an operator shall, by certified mail return ne surface owner's land for the purpose of en of this article satisfies the requirements evever, That the notice requirements of this ude the name, address, telephone number, or's authorized representative.
Name: Janet L.		the SURFACE OWN.	Name:	
Address: 163		v	Address:	
Wheeling, WV 26				
State:	West Virginia	irpose of driffing a nortzo	ontal well on the tract of land as for	533,105.52
County:	Ohio		Northing:	4,445,000.48
County: District:	Ohio Liberty		Public Road Access:	4,445,000.48 Weidman Run Road
County: District: Quadrangle: Watershed:	Ohio		Northing:	4,445,000.48
County: District: Quadrangle: Watershed: This Notice Pursuant to 'facsimile nur	Ohio Liberty Bethany, WV Buffalo Creek Shall Include: West Virginia Code mber and electronic rizontal drilling may	mail address of the ope be obtained from the Se	Public Road Access: Generally used farm name: tice shall include the name, addrator and the operator's authorize ecretary, at the WV Department of	4,445,000.48 Weidman Run Road
County: District: Quadrangle: Watershed: This Notice Pursuant to values and to hor elated to hor located at 600	Ohio Liberty Bethany, WV Buffalo Creek Shall Include: West Virginia Code mber and electronic rizontal drilling may	mail address of the ope be obtained from the Se rleston, WV 25304 (304	Public Road Access: Generally used farm name: tice shall include the name, addrator and the operator's authorize ecretary, at the WV Department of	4,445,000.48 Weidman Run Road Benjamin Honecker OHI ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
County: District: Quadrangle: Watershed: This Notice Pursuant to Value of the horice ocated at 600 Notice is he Well Operato	Ohio Liberty Bethany, WV Buffalo Creek Shall Include: West Virginia Code mber and electronic rizontal drilling may 1 57th Street, SE, Cha	mail address of the ope be obtained from the Se rleston, WV 25304 (304 pany, LLC	Public Road Access: Generally used farm name: tice shall include the name, addrator and the operator's authorize ecretary, at the WV Department of 1-926-0450) or by visiting www.de	4,445,000.48 Weidman Run Road Benjamin Honecker OHI ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.
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County: District: Quadrangle: Watershed: This Notice Pursuant to Value of the horice ocated at 600 Notice is he Well Operato	Ohio Liberty Bethany, WV Buffalo Creek Shall Include: West Virginia Code mber and electronic rizontal drilling may 1 57th Street, SE, Cha reby given by: r: SWN Production Com PO Box 1300, 179 Inn Jane Lew, WV 26378	mail address of the ope be obtained from the Se rleston, WV 25304 (304 pany, LLC ovation Drive	Public Road Access: Generally used farm name: tice shall include the name, addrator and the operator's authorize ecretary, at the WV Department of 1-926-0450) or by visiting www.de Authorized Representative: Address:	Weidman Run Road Benjamin Honecker OHI ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. Mike Yates PO Box 1300, 179 Innovation Drive Jane Lew, WV 26378

Oil and Gas Privacy Notice:

The Office of Oil and Gas processes your personal information, such as name, address and telephone number, as part of our regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use or your personal information, please contact RECEIVED Office of Oil and Gas DEP's Chief Privacy Officer at depprivacyofficer@wv.gov.

JUN 1 3 2017

WV Department of

WW-6A5 (1/12)

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF PLANNED OPERATION

Date of Notice	Requirement: notice shall be procee; 05/23/2017 Date Po	ovided no later than the filing ermit Application Filed:	date of permit application.
Delivery met	hod pursuant to West Virginia	Code § 22-6A-16(c)	
■ CERTI	FIED MAIL	☐ HAND	
	RN RECEIPT REQUESTED	DELIVERY	
Pursuant to V	V. Va. Code § 22-6A-16(c), no la		the permit application, an operator shall, by certified mail
the planned of required to be drilling of a l damages to the	peration. The notice required by provided by subsection (b), section provided well; and (3) A propose the surface affected by oil and gas of	y this subsection shall inclu- on ten of this article to a sur- sed surface use and compen- operations to the extent the d	d will be used for the drilling of a horizontal well notice of ide: (1) A copy of this code section; (2) The information face owner whose land will be used in conjunction with the sation agreement containing an offer of compensation for amages are compensable under article six-b of this chapter, at the address listed in the records of the sheriff at the time
Notice is her	eby provided to the SURFACE	OWNER(s)	
	s listed in the records of the sherif		
(at the addres			
Name: Janet L.	Honecker	Name:	
Name: Janet L.	Honecker	√ Name: Addres	
Name: Janet L. Address: 163 N Wheeling, WV 266	Honecker Morgan Ln 2003 eby given:	Addres	SS:
Name: Janet L. Address: 163 N Wheeling, WV 266 Notice is her Pursuant to W operation on State:	Honecker Morgan Ln 2003 Peby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia	Addres	the undersigned well operator has developed a planned all well on the tract of land as follows: Easting: 533,105.52
Name: Janet L. Address: 163 N Wheeling, WV 26 Notice is her Pursuant to W operation on State: County:	Honecker Morgan Ln 2003 Peby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Ohio	Address notice is hereby given that surpose of drilling a horizont UTM NAD	the undersigned well operator has developed a planned al well on the tract of land as follows: 83 Easting: 533,105.52 Northing: 4,445,000.48
Name: Janet L. Address: 163 N Wheeling, WV 26 Notice is her Pursuant to W operation on State: County: District:	Honecker Morgan Ln 2003 Peby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Ohio Liberty	Address notice is hereby given that surpose of drilling a horizont UTM NAD Public Road	the undersigned well operator has developed a planned al well on the tract of land as follows: 83 Easting: 533,105.52 Northing: 4,445,000.48 Access: Weidman Run Road
Name: Janet L. Address: 163 Notice is her Pursuant to Woperation on State: County: District: Quadrangle:	Honecker Morgan Ln 2003 eby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Ohio Liberty Bethany, WV	Address notice is hereby given that surpose of drilling a horizont UTM NAD Public Road	the undersigned well operator has developed a planned al well on the tract of land as follows: 83 Easting: 533,105.52 Northing: 4,445,000.48
Name: Janet L. Address: 163 N Wheeling, WV 26 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r	Honecker Morgan Ln 2003 Leby given: West Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Ohio Liberty Bethany, WV Buffalo Creek Cest Virginia Code § 22-6A-16(c) and by W. Va. Code § 22-6A-10(l) and (3) A proposed surface used by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE,	notice is hereby given that surpose of drilling a horizont UTM NAD Public Road Generally us this notice shall include: (1) to a surface owner whose and compensation agreement the damages are compensationed from the Secretary and the surface obtained from the Secretary and the surface of the surface of the surface of the surface owner whose and compensation agreement the damages are compensationed from the Secretary and the surface of	the undersigned well operator has developed a planned al well on the tract of land as follows: 83 Easting: 533,105.52 Northing: 4,445,000.48 Access: Weidman Run Road
Name: Janet L. Address: 163 N Wheeling, WV 26 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters,	Honecker Morgan Ln 2003 Leby given: West Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Ohio Liberty Bethany, WV Buffalo Creek Cest Virginia Code § 22-6A-16(c) and by W. Va. Code § 22-6A-10(l) and (3) A proposed surface used by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE,	Address notice is hereby given that surpose of drilling a horizont UTM NAD Public Road Generally us this notice shall include: (1) to a surface owner whose and compensation agreement the damages are of the extent the damages are of the contained from the Secret Charleston, WV 25304	the undersigned well operator has developed a planned al well on the tract of land as follows: 83 Easting: 533,105.52 Northing: 4,445,000.48 Access: Weidman Run Road Benjamin Honecker OHI 1) A copy of this code section; (2) The information required e land will be used in conjunction with the drilling of a ent containing an offer of compensation for damages to the compensable under article six-b of this chapter. Additional stary, at the WV Department of Environmental Protection
Name: Janet L. Address: 163 N Wheeling, WV 26 Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to W to be provide horizontal we surface affect information r headquarters, gas/pages/def	Honecker Morgan Ln 2003 Peby given: Vest Virginia Code § 22-6A-16(c), the surface owner's land for the p West Virginia Ohio Liberty Bethany, WV Buffalo Creek Shall Include: Vest Virginia Code § 22-6A-16(c) Ed by W. Va. Code § 22-6A-10(l) Ell; and (3) A proposed surface used by oil and gas operations to the lated to horizontal drilling may located at 601 57th Street, SE, sault.aspx.	notice is hereby given that surpose of drilling a horizont UTM NAD Public Road Generally us this notice shall include: (1) to a surface owner whose and compensation agreement the damages are compensationed from the Secretary and the surface obtained from the Secretary and the surface of the surface of the surface of the surface owner whose and compensation agreement the damages are compensationed from the Secretary and the surface of	the undersigned well operator has developed a planned al well on the tract of land as follows: 83 Easting: 533,105.52 Northing: 4,445,000.48 Access: Weidman Run Road Benjamin Honecker OHI 1) A copy of this code section; (2) The information required e land will be used in conjunction with the drilling of a ent containing an offer of compensation for damages to the compensable under article six-b of this chapter. Additional stary, at the WV Department of Environmental Protection
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On and Gas Privacy Notice:

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WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

1900 Kanawha Boulevard East • Building Five • Room 110 Charleston, West Virginia 25305-0430 • (304) 558-3505

Thomas J. Smith, P. E. Secretary of Transportation/ Commissioner of Highways

June 1, 2017

James A. Martin, Chief Office of Oil and Gas Department of Environmental Protection 601 57th Street, SE Charleston, WV 25304

Subject: DOH Permit for the Benjamin Honecker Pad OHI 6H Well Site, Ohio County

Dear Mr. Martin,

Jim Justice

Governor

47-069-00243

The West Virginia Division of Highways has issued permit 06-2011-0235 to Southwestern Energy for access to the State Road for the well site located off of WV Route 88 in Ohio County.

The operator has signed an OIL AND GAS ROAD MAINTENANCE BONDING AGREEMENT and provided the required Bond. This operator is currently in compliance with the DOH OIL AND GAS POLICY dated January 3, 2012.

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JUN 1 3 2017

WV Department of Environmental Protection Very Truly Yours,

Gary K. Clayton Regional Maintenance Engineer Central Office Oil &Gas Coordinator

ay K. Clayton

Cc: Brittany Woody

Southwestern Energy

CH, OM, D-6

File

Product Name	Product Use	Chemical Name	CAS Number	
		Hydrogen Peroxide	7722-84-1	
EC 6734A (Champion Technologies)	Biocide	Acetic Acid	64-19-7	
		Peroxyacetic Acid	79-21-0	
GYPTRON T-390 (Champion	S cale Inhibitor	Methanol	67-56-1	
Technologies)	3 cale inhibitor	Nonylphenol E thoxylate	Proprietary	
		Glutaraldehyde	111-30-8	
Bactron K-139 (Champion Technologies)	Biocide	Quaternary Ammonium Compounds, Benzyl-C12 16-Alkyldimethyl, Chlorides	68424-85-1	
		E thanol	64-17-5	
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1	
		Quaternary Ammonium Compounds, Benzyl-C12 16-Alkyldimethyl, Chlorides	68424-85-1	
		Methanol	67-56-1	
A 264 (Schlumberger)	Corrosion	Aliphatic Acids	Proprietary	
	Inhibitor	Prop-2-yn-1-ol	107-19-7	
		Aliphatic Alcohols, Ethoxylated #1	Proprietary	
Myacide GA 25 (Schlumberger)	Biocide	Water	7732-18-5	
wyddidd dA 25 (schlamberger)	Biocide	Glutaral	111-30-8	
Cale Inhibitor P 217 /s	C 1- 1-1-1-1	Trisodium Ortho Phosphate		
cale Inhibitor B317 (Schlumberger	Scale inhibitor	E thane-1,2-diol	7601-54-9 107-21-1	
H 215 (S chlumberger)	Hydrochloric Acid	ydrochloric Hudrochloria A sid		
J 218 (S chlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0	
EB-Clean* J 475 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0	
Water Gelling Agent J 580 (Schlumberger)	Gel	C arbohydrate P olymer	Proprietary	
Friction Reducer J 609W	Friction	Ammonium S ulfate	7783-20-2	
(S chlumberger)	Reducer	Urea	57-13-6	
Crosslinker J 610 (Schlumberger)	Charaltal	Potassium Hydroxide	1310-58-3	
C1033111KE1 J010 (Schlumberger)	Crosslinker	Aliphatic Polyol		
ron Stabilizer L58 (Schlumberger)	Iron Stabilizer	S odium E rythorbate	Proprietary	
40/70-Mesh Sand S012			6381-77-7	
(S chlumberger)	Sand	C rystalline S ilica	14808-60-7	
S and S 100 (S chlumberger)	Sand	C rystalline S ilica	14808-60-7	
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary	
SSA-2 (Halliburton)		E thylene Glycol	107-21-1	
33A-2 (Halliburton)	Sand	C rystalline S ilica	14808-60-7	
FR-76 (Halliburton)	Friction	Inorganic salt	64742-47-8	
LCA-1 (Halliburton)	Reducer	Hydrotreated light petroleum distillate	04742-47-8	
SP BREAKER (Halliburton)	Proofes-	Hydrotreated light petroleum distillate	Proprietary	
the state of the s	Breaker	S odium Persulfate	7775-27-1	
HAI-150E (Halliburton)	Corrosion	Methanol	NA	
•	Inhibitor	Aliphatic Acids Prop-2-yn-1-ol		
	<u> </u>	Aliphatic Alcohols, Ethoxylated #1	- 1	
Hydrochloric Acid 10-30% (Halliburton)		Hydrochloric Acid	7647-01-0	
G-36 Gelling Agent (Halliburton)	Gel	Polysaccharide	9000-30-0	
BC-140C (Halliburton)	Crosslinker		NA	

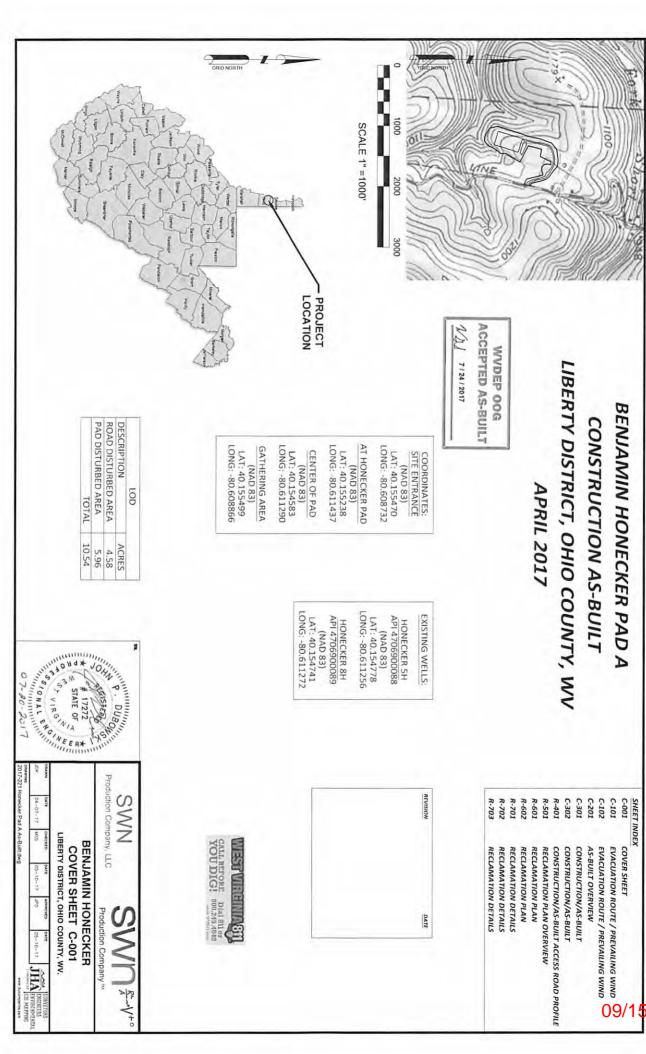
Product Name	Product Use	Chemical Name	CAS Number	
		Hydrogen Peroxide	7722-84-1	
EC6734A (Champion Technologies)	Biocide	Acetic Acid	64-19-7	
		Peroxyacetic Acid	79-21-0	
GYPTRON T-390 (Champion	6 1 1 1 1 1 1	Methanol	67-56-1	
Technologies)	Scale Inhibitor	Nonylphenol Ethoxylate	Proprietary	
	Biocide	Glutaraldehyde	111-30-8	
Bactron K-139 (Champion		Quaternary Ammonium Compounds, Benzyl-C12-	C0424 25 1	
Technologies)		16-Alkyldimethyl, Chlorides	68424-85-1	
		Ethanol	64-17-5	
Bactron K-219 (Champion	Biocide	Methanol	67-56-1	
Technologies)	2.00.00	Quaternary Ammonium Compounds, Benzyl-C12- 16-Alkyldimethyl, Chlorides	68424-85-1	
		Methanol	67-56-1	
A364 (a.u.)	Corrosion	Aliphatic Acids	Proprietary	
A264 (Schlumberger)	Inhibitor	Prop-2-yn-1-ol	107-19-7	
		Aliphatic Alcohols, Ethoxylated #1	Proprietary	
Maraida CA 25 to 11	Dia sista	Water	7732-18-5	
Myacide GA 25 (Schlumberger)	Biocide	Glutaral	111-30-8	
Control 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	6 1 1 1 1 1 1	Trisodium Ortho Phosphate	7601-54-9	
Scale Inhibitor B317 (Schlumberger)	Scale Inhibitor	Ethane-1,2-diol	107-21-1	
H215 (Schlumberger)	Hydrochloric Acid	Hydrochloric Acid	7647-01-0	
J218 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0	
EB-Clean* J475 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0	
Water Gelling Agent J580 (Schlumberger)	Gel	Carbohydrate Polymer	Proprietary	
Friction Reducer J609W	Friction	Ammonium Sulfate	7783-20-2	
(Schlumberger)	Reducer	Urea	57-13-6	
Crosslinker J610 (Schlumberger)	Crosslinker	Potassium Hydroxide	1310-58-3	
CIOSSIIIKEI JOIO (Schlumberger)	Crossilikei	Aliphatic Polyol	Proprietary	
Iron Stabilizer L58 (Schlumberger)	Iron Stabilizer	Sodium Erythorbate	6381-77 - 7	
40/70-Mesh Sand S012 (Schlumberger)	Sand	Crystalline Silica	14808-60-7	
Sand S100 (Schlumberger)	Sand	Crystalline Silica	14808-60-7	
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary	
		Ethylene Glycol	107-21-1	
SSA-2 (Halliburton)	Sand	Crystalline Silica	14808-60-7	
FR-76 (Halliburton)	Friction	Inorganic salt	64742-47-8	
	Reducer	Hydrotreated light petroleum distillate		
		Hydrotreated light petroleum distillate	Proprietary	
SP BREAKER (Halliburton)	Breaker	Sodium Persulfate	7775-27-1	

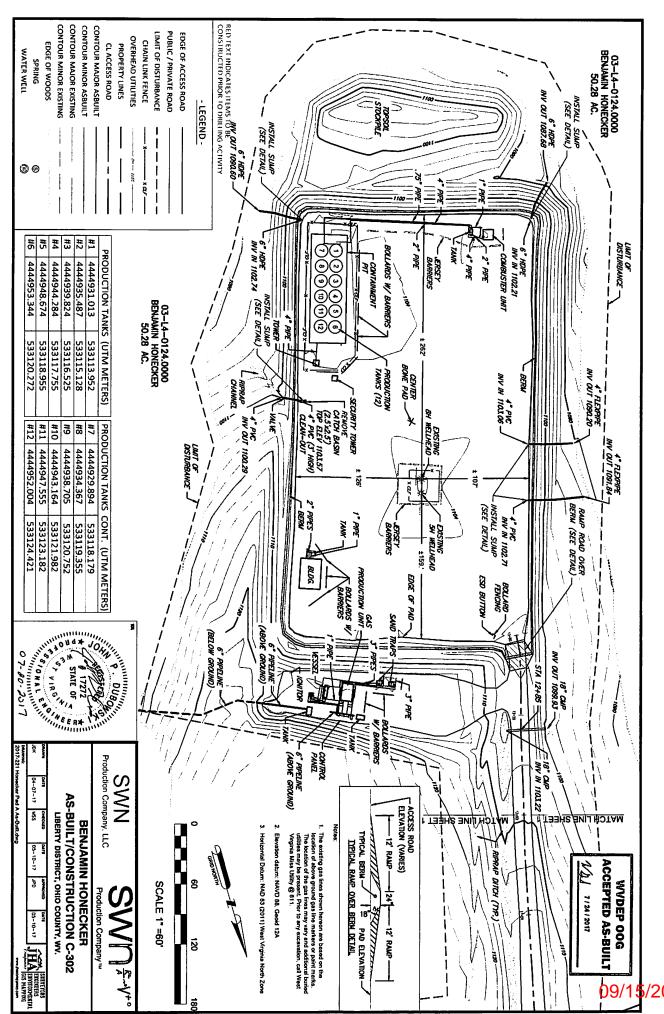
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Product Name	Product Use	Chemical Name	CAS Number
		Methanol	
HAI-150E (Halliburton)	Corrosion Inhibitor	Aliphatic Acids	NA
		Prop-2-yn-1-ol	
		Aliphatic Alcohols, Ethoxylated #1	7
Diesel Fuel (Halliburton)		Diesel Fuel	68476-34-6
Hydrochloric Acid 10-30% (Halliburton)		Hydrochloric Acid	7647-01-0
WG-36 Gelling Agent (Halliburton) Gel		Polysaccharide	9000-30-0
BC-140C (Halliburton)	Crosslinker		NA

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IECKER PAD A ON AS-BUILT OHIO COUNTY, WV 2017

SHELLIN	DEX
C-001	COVER SHEET
C-101	EVACUATION ROUTE / PREVAILING WIND
C-102	EVACUATION ROUTE / PREVAILING WIND
C-201	AS-BUILT OVERVIEW
C-301	AS-BUILT (SHEET 1)
C-302	AS-BUILT (SHEET 2)
C-401	CONSTRUCTION AS-BUILT ACCESS ROAD PROFILE

047-069-00243

SHEET INDEX

EXISTING WELLS:

HONECKÉR 5H (NAD 83) LAT: 40.154778

LONG: -80.611256

HONECKER 8H (NAD 83) LAT: 40.154741 LONG: -80.611272 REVISION DATE

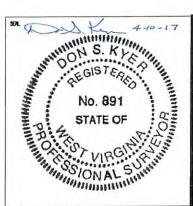
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JUN 1 3 2017

WW Department of Environmental Protection







SWN

Production Company, LLC



BENJAMIN HONECKER COVER SHEET C-001

LIBERTY DISTRICT, OHIO COUNTY, WV.

DRAWN JDK	DATE 04-07-17	CHECKED	DATE 04-07-17	DSK	DATE 04-07-17	JHA SURVEYORS ENGINEERS ENVIRONMENTAL
DRAWING:	Honecker Pad	77227	Companies GIS MAPPING www.jhacompanies.com			

0 1000 2000 3000

SCALE 1" =1000'

BENJAMIN HON CONSTRUCTIO LIBERTY DISTRICT, O APRIL 2

JAA. >

COORDINATES: SITE ENTRANCE

(NAD 83) LAT: 40.155470 LONG: -80.608732

AT HONECKER PAD

(NAD 83) LAT: 40.155238 LONG: -80.611437

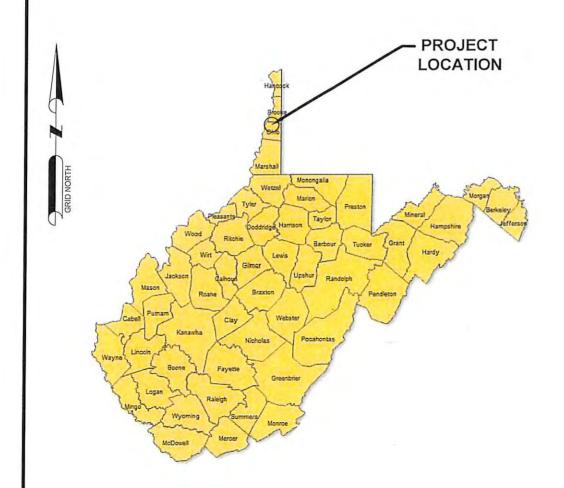
CENTER OF PAD

(NAD 83)

LAT: 40.154583 LONG: -80.611290

GATHERING AREA

(NAD 83) LAT: 40.155499 LONG: -80.608866



LOD

DESCRIPTION

ROAD DISTURBED AREA

PAD DISTURBED AREA

TOTAL