

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

Friday, September 01, 2017 WELL WORK PERMIT Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for GARY KESTNER OHI 5H

47-069-00238-00-00

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: GARY KESTNER OHI 5H

Farm Name: KESTNER, GARY & TERRY U.S. WELL NUMBER: 47-069-00238-00-00

Horizontal 6A / New Drill

Date Issued: 9/1/2017

Promoting a healthy environment.

API Number:	
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PERMIT CONDITIONS

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

- 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:	

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.

4706900238

API NO. 47-069

OPERATOR WELL NO. Gary Kestner OHI 5H
Well Pad Name: Gary Kestner OHI PAD

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

1) Well Operator: SWN Pro	oduction Co., LLC	494512924	069-Ohio	3- Libert 247/648-Bethany
	E. 7-1 . E. 7-1	Operator ID	County	District Quadrangle
2) Operator's Well Number:	Gary Kestner OHI	5H Well P	ad Name: Gar	y Kestner OHI PAD
3) Farm Name/Surface Owne	r: Gary & Terry Ke	estner Public Ro	oad Access: Gr	eggsville Clinton & Potomac Road
4) Elevation, current ground:	1291.9' E	evation, propose	d post-construc	tion: 1291.9'
5) Well Type (a) Gas X Other	Oil	Un	derground Stor	age
(b)If Gas S	Shallow X	Deep		
	Horizontal X		CA	80 5-29-17
6) Existing Pad: Yes or No		or crassing		
 Proposed Target Formation Target Formation- Marcellus, Tar 				Pressure(s): ness- 43', Associated Pressure- 3670
8) Proposed Total Vertical De	epth: 6476'			
9) Formation at Total Vertica	A THE STREET WAS DON'T USE TO SHARE THE	S		
10) Proposed Total Measured	Depth: 13,950'			
11) Proposed Horizontal Leg	Length: 6978.50'			
12) Approximate Fresh Water	r Strata Depths:	647'		
13) Method to Determine Fre	sh Water Depths:	From salinity pro	ofile and nearb	y water wells
14) Approximate Saltwater D	epths: 781'			
15) Approximate Coal Seam	Depths: 647'			
16) Approximate Depth to Po	ssible Void (coal m	ine, karst, other):	None that we	e are aware of.
17) Does Proposed well locat directly overlying or adjacent		ms Yes	N	lo X
(a) If Yes, provide Mine Inf	o: Name:			
	Depth:			
	Seam:			
	Owner:			
		Off	RECEIVED ice of Oil and Gas	

JUN 1 2017

OPERATOR WELL NO. Gary Kestner OHI 5H
Well Pad Name: Gary Kestner 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#	707'	707'	659 sx/CTS
Coal	9 5/8"	New	J-55	36#	1933'	1933'	720 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	13,950'	13,950'	lead 905 sx Tail 1766 sx Inside Intermedia
Tubing	2 3/8"	New	HCP-110	4.7#	Approx. 6467'	Approx. 6476'	
Liners							



TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (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 Page 2 of 3 09/01/2017

WW-6B
(10/14)

API NO. 47- 069 -_ OPERATOR WELL NO. Gary Kestner OHI 5H Well Pad Name: Gary Kestner 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): §.\(\)
22) Area to be disturbed for well pad only, less access road (acres): 5.5
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:
See Attachment ***
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.
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*Note: Attach additional sheets as needed.

Schlumberger Cement Additives

			ger cement Additives	
-	Product 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
ي ق	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
pes	D046	antifoam	fullers earth (attapulgite)	8031-18-3
Production-Lead			chrystalline silica	14808-60-7
읦	D201	retarder	metal oxide	propriatary
ä			sulphonated synthetic polymer	propriatary
<u> </u>	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
E.			sodium polynaphthalene sulfonate	9008-63-3
Į-į	D065	dispersant	sodium sulfate	7757-82-6
Production-Tall			chrystalline silica	14808-60-7
ą	D201	retarder	metal oxide	propriatary
غة	D153	anti-settling	chrystalline silica	14808-60-7

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P O Box 12359 Spring, Texas 77391-2359 www.swn.com

May 16, 2017

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

RE: Proposed New Well Gary Kestner OHI 5H

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 Kestner'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

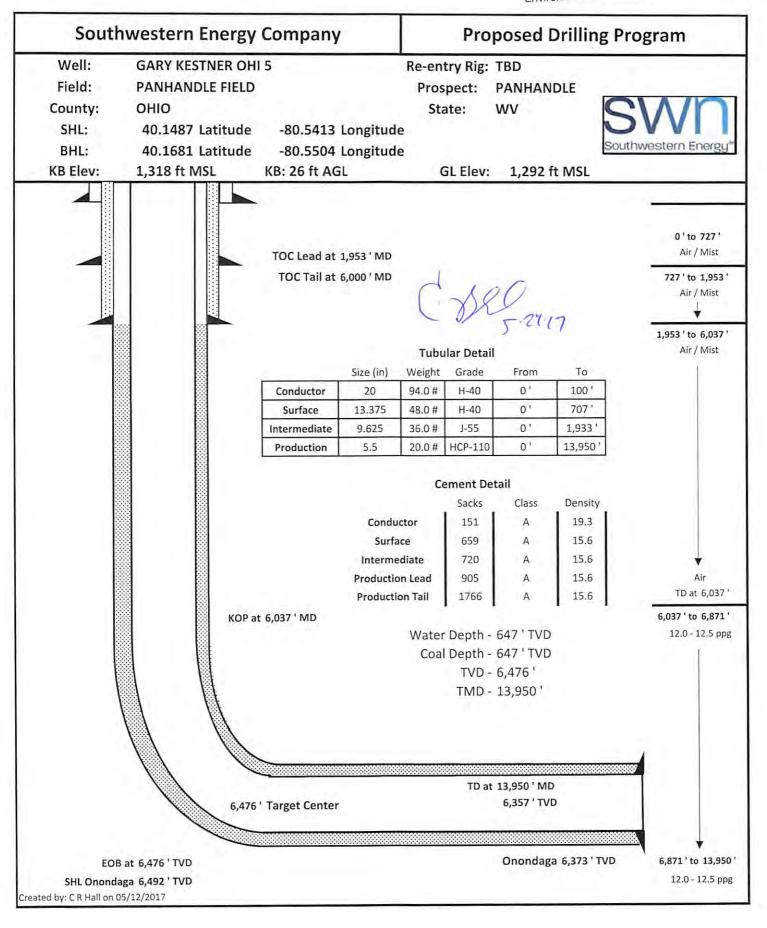
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API Number 47 -	69	- 3	
Operator's	Well	No.	Gary Kestner OHI 5H

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

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FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Outside Name SWN Deschartes Company LLC		WV Department Environmental Prote
Operator Name SWN Production Company, LLC	OP Code 494512924	
	Quadrangle Bethany/Valley Grove	
Do you anticipate using more than 5,000 bbls of water to complete the Will a pit be used? Yes No	ne proposed well work? Yes 🔽 No _	
If so, please describe anticipated pit waste:closed loop syste	em in place at this time- cuttings will be taken to a peri	mitted landfill
Will a synthetic liner be used in the pit? Yes No	If so, what ml.?	
Proposed Disposal Method For Treated Pit Wastes:		
Land Application		
Underground Injection (UIC Permit Num		
	, API # will be included with the WR-34/DDMR &/or permit add	endum)
Off Site Disposal (Supply form WW-9 fo	or disposal location) In steel tanks and reused or taken to a permitted disp	posal facility
Outer (Explain		
Will closed loop system be used? If so, describe: yes		
Orilling medium anticipated for this well (vertical and horizontal)?	Air, freshwater, oil based, etcair drill to KOP, fluid drill with	h SOBM from KOP to TD
-If oil based, what type? Synthetic, petroleum, etc. synthetic	oil base	
Additives to be used in drilling medium? see attached sheets		
Orill cuttings disposal method? Leave in pit, landfill, removed offsit	e, etc. landfill	
-If left in pit and plan to solidify what medium will be used?	? (cement, lime, sawdust)	
-Landfill or offsite name/permit number?meadow SWF-1032, SS grading	SWF-4902, Northwestern SWF-1025, Short Creek 1034/WV0109517/CID28726, Carbon Li	imeston 28726-CID28726
Arden Landtill 10072, American 02-12954, Country	Wide 38390/CID38390, Pine Grov	e 13688
Permittee shall provide written notice to the Office of Oil and Gas of West Virginia solid waste facility. The notice shall be provided within		
where it was properly disposed.	in 2 r nound of rejection and the permitted some	
I certify that I understand and agree to the terms and condition August 1, 2005, by the Office of Oil and Gas of the West Virginia provisions 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 examplication form and all attachments thereto and that, based on obtaining the information. I believe that the information is true, a penalties for submitting false information, including the possibility of	a Department of Environmental Protection. It term or condition of the general permit and/ mined and am familiar with the information my inquiry of those individuals immediate accurate, and complete. I am aware that th	understand that the or other applicable submitted on this ely responsible for
Company Official Signature		
Company Official (Typed Name) Dee Southall		
Company Official Title Regulatory Supervisor		
(1)		
Subscribed and sworn before me this day of	20.17	~~~
2	Notary Public. St	TAL SEAL tate of West Virginia
Duttany K Woody	Notary Public BRITTAN	Y R WOODY
My commission expires 111 271 27	Buckhanno	on, WV 26201 Ires November 27, 2022

Lime as determined by pH test min. 2 Tons/acre or to cor	8.0	Prevegetation pH	
10.00.00	тесt to pH <u>5.5</u>		
Fertilizer type 10-20-20			
Fertilizer amount 600	lbs/acre		RECEIVED
Mulch Hay/Straw 2.5	Tons/acre		RECEIVED Office of Oil and Gas
			JUN 1 2017
	Seed Mixtures		WV Department of Environmental Protect
Temporary		Permanent	
Seed Type Ibs/acre **See Attachment		Seed Type	lbs/acre
	_		
acreage, of the land application area. Photocopied section of involved 7.5' topographic sheet	et.		
1			
Plan Approved by:	1 (A) (A)		
and approved by	27.17		
All Approved by	27.17		
All Approved by	27.17		
All Approved by	27.17		
All Approved by	27.17		
All Approved by	27.17		
All Approved by	27.17		
All Approved by	27.17		

Drilling Mediums

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

Office of Oil and Gas

JUN 1 2017

WV Department of Environmental Protection



WVD Seeding Specification



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

Oct. 15th- April 15th PLUS

50lbs per acre of Winter Wheat

(please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES		
Seed Mixture: ROW Mix	SWI	N Supplied
Orchardgrass	40%	
Timothy	15%	
Annual Ryegrass	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		Apply @ 200lbs per acre

_		 	-	
			ЛEN	

April 16th- Oct. 14th

10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
	*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.

Seed Mixture: SWN Production Organi	c Mix	SWN Supplied
Organic Timothy	50%	
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

Seed Mixture: Wetland Mix	SWN St	upplied
VA Wild Ryegrass	20%	
Annual Ryegrass	20%	
Fowl Bluegrass	20%	
Cosmos 'Sensation'	10%	DECEMED
Redtop	5%	RECEIVED Office of Oil and Gas
Golden Tickseed	5%	4.44
Maryland Senna	5%	JUN 1 2017
Showy Tickseed	5%	MALD-partment of
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

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN

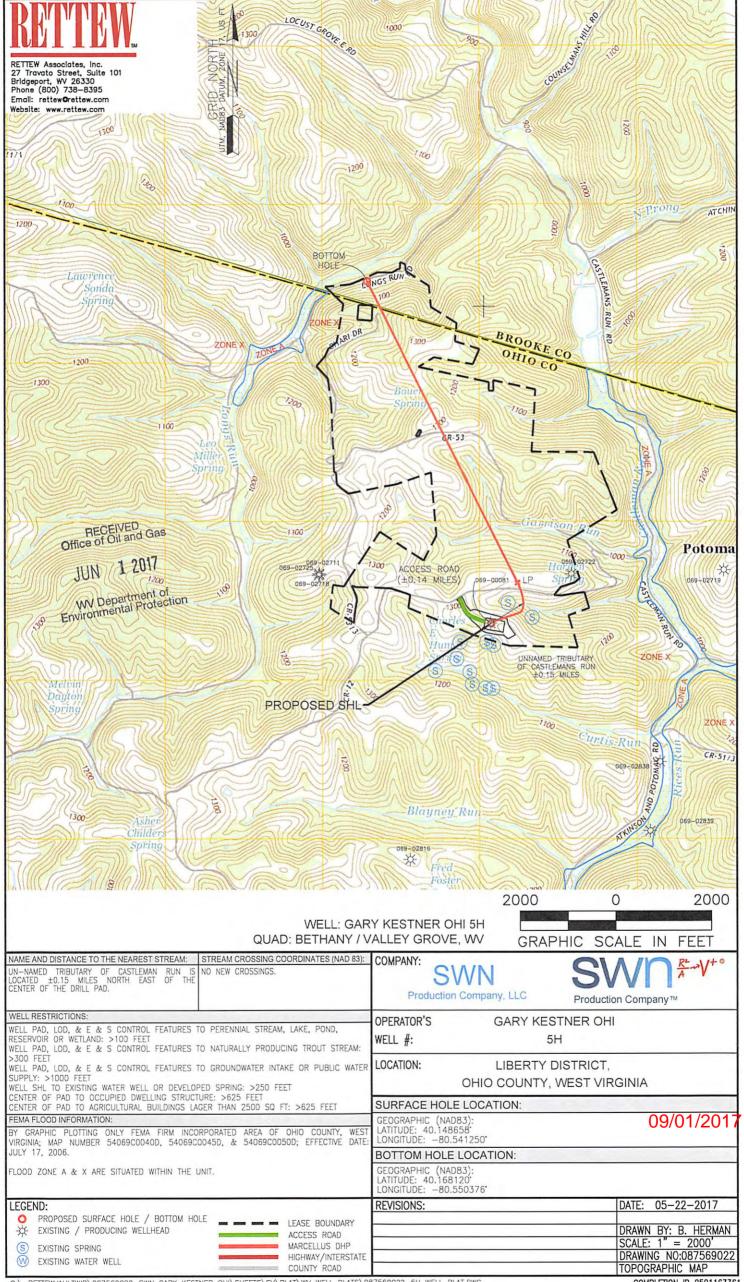


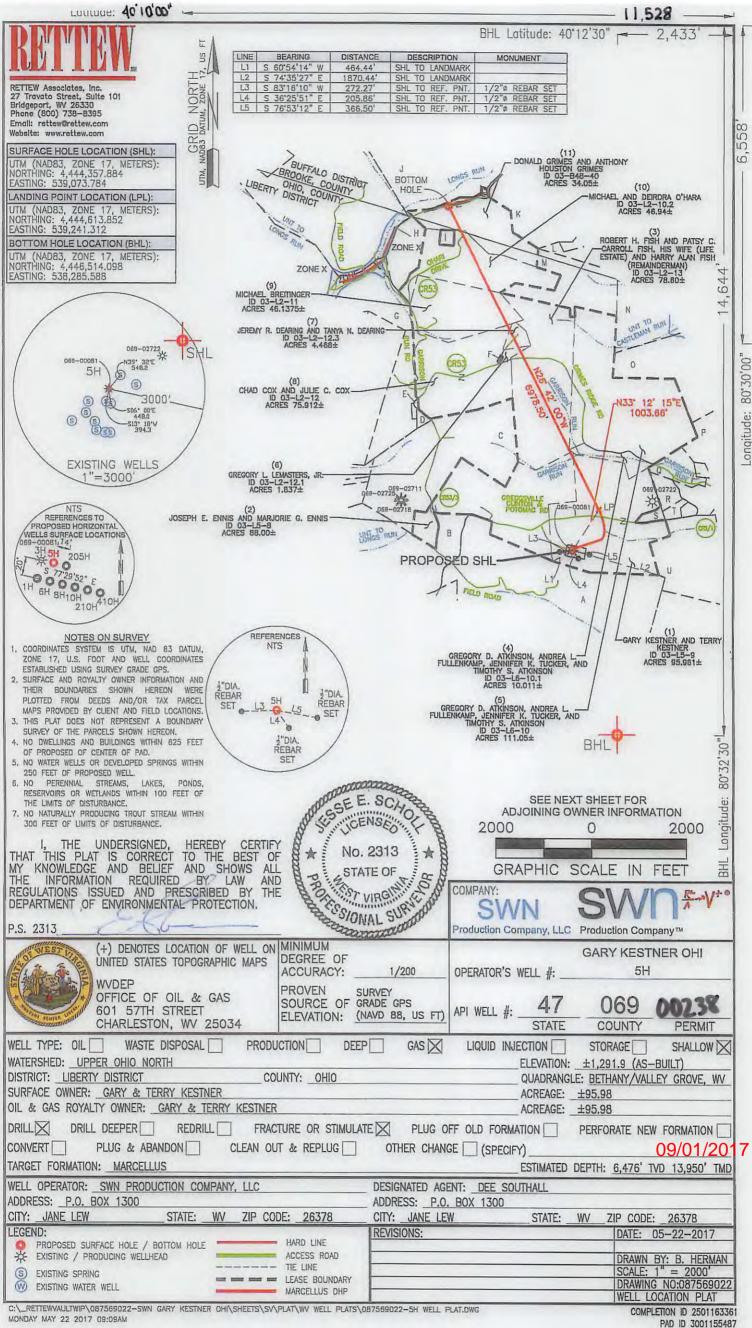
SWN Production Company, LLC 179 Innovation Drive Jane Lew, West Virginia 26378

API NO. 47-XXX-XXXXX WELL NAME: Gary Kestner OHI 5H Bethany/Valley Grove QUAD Liberty DISTRICT Ohio COUNTY, WEST VIRGINIA

Submitted by:					
Dee Southall	Date:	5/9/2017			
Title: Regulatory Supervisor	SWN P	roduction Co., LLC			
Approved by: Title: Oil & Gran = 1800	Date:	5.74.17	SI		icit icit
Approved by:	Date:		RECEIVED Office of Oil and Gas	IN 1 2017	Department of
Title:			Office	JC	Fnviror

SWN PRODUCTION COMPANY, LLC







SURFACE OWNERS

TRACT	SURFACE OWNERS	TAX PARCEL	ACRES	
1	GARY KESTNER AND TERRY KESTNER	03-L5-9	95.981±	
2	JOSEPH E. ENNIS AND MARJORIE G. ENNIS	03-L5-8	88.00±	
3	ROBERT H. FISH AND PATSY C. CARROLL FISH, HIS WIFE (LIFE ESTATE), AND HARRY ALAN FISH (REMAINDERMAN)	03-L2-13	78.60±	
4	GREGORY D. ATKINSON, ANDREA L. FULLENKAMP, JENNIFER K. TUCKER, AND TIMOTHY S. ATKINSON	03-L6-10.1	10.011±	
5	GREGORY D. ATKINSON, ANDREA L. FULLENKAMP, JENNIFER K. TUCKER, AND TIMOTHY S. ATKINSON	03-L6-10	111.05±	
6	GREGORY L. LEMASTERS JR.	03-L2-12.1	1.837±	
7	JEREMY R. DEARING AND TANYA N. DEARING	03-L2-12.3	4.468±	
8	CHAD COX AND JULIE C. COX	03-L2-12	75.912±	
9	MICHAEL BREITINGER	03-L2-11	46.1375±	
10	MICHAEL AND DEIRDRA O'HARA	03-L2-10.2	46.94±	
11	DONALD GRIMES AND ANTHONY HOUSTON GRIMES	03-B48-40	34.05±	

ADJOINING OWNERS

TRACT	SURFACE OWNERS	TAX PARCEL	ACRES
A	HELEN L. & JOHN I. JR. TOMINACK	03-L5-10	215.50±
В	DONALD F. & J. L. DOLENCE	03-L5-11	90.22±
C	TIMOTHY R. & THELMA C. HAYS	03-L5-29	102.00±
D	N/A	03-L2-122	N/A±
E	SHARON L. GILL	03-L2-8.2	0.34±
F	JONATHAN MITCHELL SWEARINGEN	03-L2-12.4	0.17±
G	SCOTT & MARK SONDA	03-L2-2	182.97±
Н	WINDSOR COAL COMPANY	03-L2-9	20.07±
	DEIRDRA O'HARA	03-L2-10	2.00±
J	MARION PYLE STONE	03-B48-41	133.00±
K	WILLIAM K. & ANDREA WALDEN	03-B48-38	96.00±
L	WILLIAM B. COX	05-B47-9	1.56±
М	MICHAEL J. GRIMES	03-L2-10.1	46.94±
N	STATE OF WV CONSERVATION COMMISSION	03-L3-1	13.40±
0	STATE OF WV CONSERVATION COMMISSION	03-L3-1.1	64.00±
P	EDGAR PARRISH	03-L6-2.2	16.81±
Q	GREGORY D. ATKINSON; ET AL	03-L6-10.2	11.00±
R	LURA MARIE GEAR	03-L6-9.1	5.85±
S	RICHARD C. COWAN, SR. & C. A. WILLIAMS	03-L6-21	2.22±
T	RONALD LEROY CONNER	03-L6-11	0.41±
U	GREGORY N. & SHARON LEE MORMANIS	03-L6-13	105.00±

REVISIONS:	COMPANY:	SWN Production Company, LLC	SWN R-20V+° Production Company™
	OPERATOR'S WELL #:	GARY KESTNER OHI 5H	DATE: 05-22-2017 DRAWN BY: B. HERMAN
	LOCATION:	LIBERTY DISTRICT, OHIO COUNTY, WEST VIRG	SCALE: N/A DRAWING NO:08756902 NIA ADJOINING OWNERS

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 1 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 —

- (1) 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

See Exhibit

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JUN 1 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:

Its:

Landman

Page 1 of ____

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 Gary Kestner OHI 5H Ohio County, West Virginia

#	TAX ID	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1	03-15-9	Gary Kestner and Terry Kestner	95.981	729489-000	Gary Kestner and Terry Kestner, husband and wife	Chesapeake Appalachia, L.L.C.	18%	814/427
				1-313947-000	Gary kestner and terry kestner, husband and wife	SWN Production Company, LLC		884/1
2	03-15-8	Joseph E. Ennis and Marjorie G. Ennis	88.00	730213-000	Joseph E. and Marjorie G. Ennis, husband and wife	Great Lakes Energy Partners, L.L.C.	15.5%	771/748
				1-324694-000	Joseph E. and Marjone G. Emilis, nusband and wife	Chesapeake Appalachia, L.L.C.		808/368
						SWN Production Company, LLC		883/527
3	03-L2-13	Robert H. Fish and Patsy C. Carroll Fish, his wife (Life	78.60	730202-000	Robert H. Fish, widower	Great Lakes Energy Partners, L.L.C.	15.5%	770/411
		Estate), and Harry Alan Fish (Remainderman)		1-324666-000		Chesapeake Appalachia, L.L.C.		808/434
						SWN Production Company, LLC		883/527
4	03-L6-10.1	Gregory D. Atkinson, Andrea L. Fullenkamp, Jennifer K.	10.011	730260-000	The Atkinson Family Revocable Living Trust Dated	Range Resources - Appalachia, LLC	17%	790/150
		Tucker, and Timothy S. Atkinson		1-324764-000	January 31, 2002	Chesapeake Appalachia, L.L.C.		808/448
						SWN Production Company, LLC		883/539
5	03-L6-10	Gregory D. Atkinson, Andrea L. Fullenkamp, Jennifer K.	111.05	730260-000	The Atkinson Family Revocable Living Trust Dated	Range Resources - Appalachia, LLC	17%	790/150
	Tucker, and Timothy S. Atkinson		1-324764-000	January 31, 2002	Chesapeake Appalachia, L.L.C.		808/448	
						SWN Production Company, LLC		883/539
6	03-L2-12.1	Gregory L. Lemasters Jr.	1.837	735844-000	Const Contracted March A. Contract bushead and wife	Chesapeake Appalachia, L.L.C.	18%	820/104
				47-000464-000	Gary E. Carter and Mary A. Carter, husband and wife	SWN Production Company, LLC		885/608
7	03-L2-12.3	Jeremy R. Dearing and Tanya N. Dearing	4.468	730251-000	Adishard Debits and Debits of Debt husband and wife	Range Resources - Appalachia, LLC	15%	787/703
				1-324751-000	Michael J. Pritt and Patricia L. Pritt, husband and wife	Chesapeake Appalachia, L.L.C.		808/542
						SWN Production Company, LLC		883/539
8	03-L2-12	Chad Cox and Julie C. Cox	75.912	731271-000	Chad Cox and Julie C. Cox, husband and wife	Chesapeake Appalachia, L.L.C.	18%	814/555
				1-329208-000		SWN Production Company, LLC		883/575
9	03-L2-11	Michael Breitinger	46.1375	730208-000	Michael Breitinger, single	Great Lakes Energy Partners, L.L.C.	15.5%	771/284
				1-324682-000		Chesapeake Appalachia, L.L.C.		808/343
						SWN Production Company, LLC		883/527
10	03-L2-10.2	Michael and Deirdra O'Hara	46.94	730209-000	Michael and Deirdra O'Hara, husband and wife	Great Lakes Energy Partners, L.L.C.	15.5%	771/346
				1-324683-000		Chesapeake Appalachia, L.L.C.		808/343
i						SWN Production Company, LLC		883/527
11	03-B48-40	Donald Grimes and Anthony Houston Grimes	34.05	724890-000	Donald H. Grimes and Patricia L. Grimes, husband and	Chesapeake Appalachia, L.L.C.	14%	10/426
				1-264320-000	wife, and Anthony Houston Grimes and Kimberly	SWN Production Company, LLC		30/480
					Grimes, husband and wife			

Office of Oil and Gas

JUN 1 2017

W Department of Environmental Protection





May 24, 2017

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

RE: SWN's proposed New Well: Gary Kestner OHI 5H in Ohio County, West Virginia, Drilling under Field Road, Ohari Drive, Grimes Ridge Road, and Greggsville Clinton & Potomac Road.

- 114 - 4

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 Field Road, Ohari Drive, Grimes Ridge Road, and Greggsville Clinton & Potomac Road 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

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JUN 1 2017

WV Department of Environmental Protection

10000 Energy Drive Spring, TX 77389-4954 The Right People doing the Right Things, wisely investing the cash flow from our underlying Assets, will create Value+[©]

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

	ce Certification:	API N	io. 47- 069 -	
	Stast !		itor's Well No. Gary	Kestner OHI 5H
			Pad Name: Gary Ke	
Notice has	been given:			
		§ 22-6A, the Operator has provided th	ne required parties v	with the Notice Forms listed
	tract of land as follows:			
State:	West Virginia	UTM NAD 83 Eastin	g: 539073.784	
County:	069-Ohio	Northi	ing: 4444357.884	
District:	Liberty	Public Road Access:	Greggsville Clinto	on & Potomac Road
Quadrangle:	Bethany/Valley Grove	Generally used farm nan	ne: Gary Kestner	
Vatershed:	Upper Ohio North			
nformation r of giving the equirements Virginia Cod	equired by subsections (b) and (c), so surface owner notice of entry to su of subsection (b), section sixteen of	bed in subdivisions (1), (2) and (4), action sixteen of this article; (ii) that the trivey pursuant to subsection (a), seen of this article were waived in writing the ender proof of and certify to the secret.	he requirement was tion ten of this arti g by the surface ov	deemed satisfied as a resurcle six-a; or (iii) the notice wher; and Pursuant to Wes
	Wast Vincinia Coda C 22 64 the O.	austou has attached musef to this Nat	ina Cartification	
that the Ope	erator has properly served the require	perator has attached proof to this Not d parties with the following:	ice Certification	OOG OFFICE USE ONLY
*PLEASE CH	erator has properly served the require		ECAUSE NO	
*PLEASE CH	ETATOR has properly served the require ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	d parties with the following: NOTICE NOT REQUIRED BE	ECAUSE NO DUCTED	ONLY RECEIVED/
*PLEASE CHI 1. NO	ETATOR has properly served the require ECK ALL THAT APPLY FICE OF SEISMIC ACTIVITY or	d parties with the following: NOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS CONI	ECAUSE NO DUCTED AS CONDUCTED ECAUSE	ONLY RECEIVED/ NOT REQUIRED
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*PLEASE CHI 1. NO 2. NO 3. NO	TICE OF ENTRY FOR PLAT SURV	DOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS CONFIDENT OF THE NOTICE NOT REQUIRED BE NOTICE OF ENTRY FOR PLATS WAS CONDUCTED OF WRITTEN WAIVER BY SU	ECAUSE NO DUCTED AS CONDUCTED ECAUSE SURVEY	ONLY RECEIVED/ NOT REQUIRED RECEIVED/
that the Ope *PLEASE CHI 1. NO 2. NO 3. NO	Trator has properly served the require ECK ALL THAT APPLY TICE OF SEISMIC ACTIVITY or TICE OF ENTRY FOR PLAT SURV	DOTICE NOT REQUIRED BE SEISMIC ACTIVITY WAS CONFIDENT OF THE NOTICE NOT REQUIRED BE NOTICE OF ENTRY FOR PLATS WAS CONDUCTED OF WRITTEN WAIVER BY SU	ECAUSE NO DUCTED AS CONDUCTED ECAUSE SURVEY	ONLY RECEIVED/ NOT REQUIRED RECEIVED/ RECEIVED/ NOT REQUIRED

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.

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JUN 1 2017 09/01/2017 WV Department of Environmental Protection

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.

Email:

Well Operator: SWN Production Co., LLC

By: Dee Southall

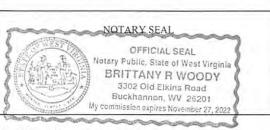
Its: Regulatory Supervisor

Telephone: 304-884-1614

Address: P.O. Box 1300

Jane Lew, WV 26378

Facsimile:



Subscribed and sworn before me this that day of May 201 .

Notary Public My Commission Expires

Dee_Southall@swn.com

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 depprivacyofficer@wv.gov.

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JUN 1 2017

API NO. 47- 069 -

OPERATOR WELL NO. Gary Kestner OHI 5H

Well Pad Name: Gary Kestner OHI PAD

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

Notice Time Require	ement: notice shall be prov	ided no later than	the filing date of permit application.
Date of Notice:	Date Permit Applica	ation Filed: 512	2/17
PERMIT FOR A			COVAL FOR THE
WELL WORK	CONST	RUCTION OF A	N IMPOUNDMENT OR PIT
Delivery method pur	rsuant to West Virginia C	ode § 22-6A-10(b)
☐ PERSONAL	☑ REGISTERED	☐ METHO	D OF DELIVERY THAT REQUIRES A
SERVICE	MAIL		T OR SIGNATURE CONFIRMATION
sediment control plan in the surface of the tract oil and gas leasehold be described in the erosio operator or lessee, in the more coal seams; (4) To well work, if the surface impoundment or pit as have a water well, spri provide water for consproposed well work ac subsection (b) of this serecords of the sheriff reprovision of this article Code R. § 35-8-5.7.	required by section seven of on which the well is or is pro- pring developed by the propo- n and sediment control plan- ne event the tract of land on the owners of record of the s- ce tract is to be used for the pro- described in section nine of ng or water supply source lo- umption by humans or dome tivity is to take place. (c)(1) section hold interests in the la- equired to be maintained pur- ter to the contrary, notice to a requires, in part, that the ope	this article, and the oposed to be located well work, if the submitted pursuant which the well producted tract or traced action of the article; (5) And the article; (5) And the article article article and the article artic	signature confirmation, copies of the application, the erosion and e well plat to each of the following persons: (1) The owners of record of ed; (2) The owners of record of the surface tract or tracts overlying the he surface tract is to be used for roads or other land disturbance as t to subsection (c), section seven of this article; (3) The coal owner, posed to be drilled is located [sic] is known to be underlain by one or ts overlying the oil and gas leasehold being developed by the proposed ction, enlargement, alteration, repair, removal or abandonment of any new surface owner or water purveyor who is known to the applicant to housand five hundred feet of the center of the well pad which is used to 6) The operator of any natural gas storage field within which the tenants in common or other co-owners of interests described in may serve the documents required upon the person described in the ght, article one, chapter eleven-a of this code. (2) Notwithstanding any otice to a landowner, unless the lien holder is the landowner. W. Va. ovide the Well Site Safety Plan ("WSSP") to the surface owner and any sprovided in section 15 of this rule.
☐ Application Notice	ee ☑ WSSP Notice ☑ E&	&S Plan Notice	☑ Well Plat Notice is hereby provided to:
SURFACE OWNE	,		☑ COAL OWNER OR LESSEE
Name: Gary & Terry Kestr		_	Name: Windsor Coal Company
Address: 1787 Rock Woo	ods Road	_	Address: 1000 Consol Energy Drive
Valley Grove, WV 26060			Canonsburg, WV 15317
Name:			COAL OPERATOR
Address:		_	Name:
	D/ \ / D		Address:
	R(s) (Road and/or Other D		T CLIDE A CE OWNIED OF WATER WELL
Name:	W. T. T. M. C. L. S. L.		SURFACE OWNER OF WATER WELL
Address:		_	AND/OR WATER PURVEYOR(s)
NT.		_	Name: See Attachment #1
Name:		-	Address:
Address:		_	OPERATOR OF ANY NATURAL GAS STORAGE FIELD
- CUBEAGE OWNER	D(-) (I111		두 가게 그 병생님은 그 사이를 가게 하면 이렇게 가지 않는데 그리고 있다면 하는데 되었다면 하는데 그리고 있다.
	R(s) (Impoundments or Pit		Name:
Name:	1 4 1 1 1 1 1 1 1 1 1 1	-	Address:
			*Please attach additional forms if necessary
		-	i lease attach additional forms if ficeessary

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JUN 1 2017

WW-6A (8-13) RECEIVED Office of Oil and Gas

JUN 1 2017

API NO. 47- 069 - OPERATOR WELL NO

OPERATOR WELL NO. Gary Kestner OHI 5H Well Pad Name: Gary Kestner 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

API NO. 47-069

OPERATOR WELL NO. Gary Kestner OHI 5H

Well Pad Name: Gary Kestner 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:

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

JUN 1 2017

Office of Oil and Gas

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.

OPERATOR WELL NO. Gary Kestner OHI 5H

Well Pad Name: Gary Kestner 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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Office of Oil and Gas

JUN 1 2017

API NO. 47-069

OPERATOR WELL NO. Gary Kestner OHI 5H

Well Pad Name: Gary Kestner OHI PAD

Notice is hereby given by:

Well Operator: SWN Production Co., LLC.

Telephone: 304-884-1614 Email: Dee_Southall@swn.com Address: P.O. Box 1300 Jane Lew, WV 26378

Facsimile:

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 depprivacyofficer@wv.gov.

OFFICIAL SEAL Notary Public, State of West Virginia BRITTANY R WOODY 3302 Old Elkins Road Buckhannon, WV 26201 My commission expires November 27, 2022

Notary Public

My Commission Expires

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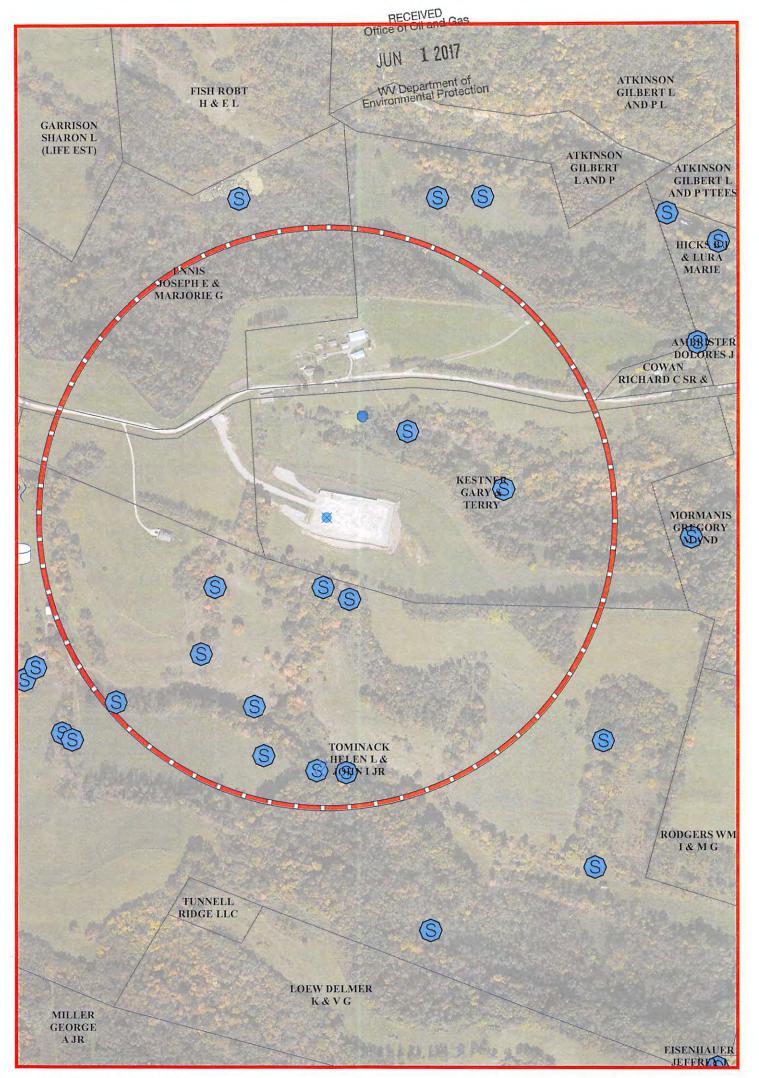
1 2017

Atlachment #1

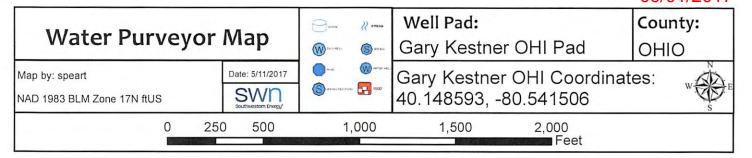
Gary Kestnery C	Sources	
Landowner	Address	
Gary & Terry Kestner	1787 Rock Woods Road, Valley Grove, WV 26060	2 springs
John & Helen Tominack	1554 Rock Woods Road, Valley Grove, WV 26060	9 Springs

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JUN 1 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. 09/01/2017



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.

Notice Time Date of Noti			t least TEN (10) days prior to filing a	permit application. RECEIVED Office of Oil and Gas		
Delivery me	thod pursuant	to West Virginia Code §	22-6A-16(b)	Office of Oil and das		
☐ HAND		CERTIFIED MAIL	3.1 TV(N)	JUN 1 2017		
DELIVI	ERY	RETURN RECEIPT REC	QUESTED	WV Department of Environmental Protection		
receipt reque drilling a hor of this subsection mand if available	sted or hand del izontal well: Potion as of the day be waived in ole, facsimile nu	livery, give the surface own rovided. That notice given ate the notice was provided writing by the surface own mber and electronic mail a	ner notice of its intent to enter upon the pursuant to subsection (a), section tend to the surface owner: <i>Provided, howers</i> . The notice, if required, shall includdress 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: Gary an		d to the SURFACE OV	Name:			
Address: 178			Address:			
Valley Grove, W			/			
Pursuant to V the surface or			is hereby given that the undersigned orizontal well on the tract of land as fo	well operator has an intent to enter upon llows:		
State:	West Virginia	The second second	— UTM NAD 83 Easting:	539,073.784		
County:	Ohio		Northing:	4,444,357.884		
District:	Liberty		Public Road Access:	Greggsville Clinton & Potomac Road		
Quadrangle: Bethany/Valley Grove, WV Generally used farm name: Gary Kestner OHI						
Watershed:	Upper Ohio North		-			
Pursuant to facsimile nur related to ho	mber and electr rizontal drilling	Code § 22-6A-16(b), this conic mail address of the may be obtained from the	operator and the operator's authorized e Secretary, at the WV Department o	ress, telephone number, and if available, ed representative. Additional information f Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx.		
Notice is he	ereby given by	7:	Authorized Representative:			
Address:	-	179 Innovation Drive	Address:	PO Box 1300, 179 Innovation Drive		
riduloss.	Jane Lew, WV		/ tuti css.	Jane Lew, WV 26378		
Telephone:	304-517-6603	20010	Telephone:	304-517-6603		
Email:	Michael Yates	@swn com	Email:	Michael_Yates@swn.com		
Facsimile:	304-884-1691	(Wawn.coll)	Facsimile:	304-884-1691		
i desimile.	304-004-1091			007 007 1001		

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	Requirement: notice shall be provided ce: 05/11/2017 Date Permit	Application Filed:	date of permit	application.
Delivery met	thod pursuant to West Virginia Code	§ 22-6A-16(c)		
■ CERTI	FIED MAIL	HAND		
RETUI	RN RECEIPT REQUESTED	DELIVERY		
return receipt the planned of required to be drilling of a l damages to the	requested or hand delivery, give the sur operation. The notice required by this e provided by subsection (b), section ten horizontal well; and (3) A proposed sur- ne surface affected by oil and gas operati	rface owner whose land subsection shall include of this article to a surface use and compensions to the extent the da	I will be used for de: (1) A copy ace owner whos ation agreemen amages are comp	cation, an operator shall, by certified mail or the drilling of a horizontal well notice of of this code section; (2) The information see land will be used in conjunction with the at containing an offer of compensation for pensable under article six-b of this chapter, sted in the records of the sheriff at the time
	eby provided to the SURFACE OWN			
(at the addres Name: Gary and	s listed in the records of the sheriff at the			
Name: Gary and		Name: Address		
	Rock Woods Rd			
Address: 1787 Valley Grove, WV	eby given:			well operator has developed a planned
Address: 1787 Valley Grove, WV Notice is her Pursuant to W operation on State:	eby given: Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia	e is hereby given that the	ne undersigned v I well on the tra 2 Easting:	ct of land as follows: 539,073.784
Address: 1787 Valley Grove, WV Notice is her Pursuant to W operation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Ohio	e is hereby given that the of drilling a horizonta	ne undersigned value on the tra Easting: Northing:	539,073.784 4,444,357.884
Address: 1787 Valley Grove, WV Notice is her Pursuant to W operation on State: County: District:	eby given: Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia	e is hereby given that the of drilling a horizonta UTM NAD 8	ne undersigned value on the tra Easting: Northing: Access:	ct of land as follows: 539,073.784
Address: 1787 Valley Grove, WV Notice is her Pursuant to W operation on State: County:	eby given: /est Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Ohio Liberty	e is hereby given that the of drilling a horizonta UTM NAD 8	ne undersigned value on the tra Easting: Northing:	ct of land as follows: 539,073.784 4,444,357.884 Greggsville Clinton & Potomac Road
Address: 1787 Valley Grove, WV 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	eby given: Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Ohio Liberty Bethany/Valley Grove, WV Upper Ohio North Shall Include: Vest Virginia Code § 22-6A-16(c), this red by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and ted by oil and gas operations to the extrelated to horizontal drilling may be oblocated at 601 57th Street, SE, Characteristics.	e is hereby given that the of drilling a horizonta UTM NAD 8 Public Road Generally use notice shall include: (1) a surface owner whose compensation agreement the damages are contained from the Secret	ne undersigned of l well on the tra Easting: Northing: Access: ad farm name: A copy of this are land will be undersigned arm, at the WV	ct of land as follows: 539,073.784 4,444,357.884 Greggsville Clinton & Potomac Road
Address: 1787 Valley Grove, WV 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	eby given: Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Ohio Liberty Bethany/Valley Grove, WV Upper Ohio North Shall Include: Vest Virginia Code § 22-6A-16(c), this red by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and the detection of the extremation o	e is hereby given that the of drilling a horizonta UTM NAD 8 Public Road and Generally use the second of the sec	ne undersigned of l well on the tra Easting: Northing: Access: ed farm name: A copy of this e land will be understand arry, at the WV (304-926-0450)	code section; (2) The information required used in conjunction with the drilling of a noffer of compensation for damages to the ler article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-
Address: 1787 Valley Grove, WV Notice is her Pursuant to W operation on State: County: District: Quadrangle: Watershed: This Notice S Pursuant to V to be provide horizontal we surface affect information r headquarters,	eby given: Vest Virginia Code § 22-6A-16(c), notice the surface owner's land for the purpose West Virginia Ohio Liberty Bethany/Valley Grove, WV Upper Ohio North Shall Include: Vest Virginia Code § 22-6A-16(c), this red by W. Va. Code § 22-6A-10(b) to a cell; and (3) A proposed surface use and the detection of the extremation o	e is hereby given that the of drilling a horizonta UTM NAD 8 Public Road Generally use notice shall include: (1) a surface owner whose compensation agreement the damages are contained from the Secret	ne undersigned of l well on the tra Easting: Northing: Access: ad farm name: A copy of this are land will be undersigned arm, at the WV	code section; (2) The information required used in conjunction with the drilling of an offer of compensation for damages to the der article six-b of this chapter. Additional Department of Environmental Protection or by visiting www.dep.wv.gov/oil-and-nnovation-prive

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JUN 1 2017

WV Departmental Protection
Environmental Protection



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

Jim Justice Governor 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

Reissued August 29, 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 Gary Kestner Pad, Ohio County Gary Kestner OHI 5H

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2011-0058 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 12 SLS.

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.

Very Truly Yours,

Gary K. Clayton, P.E. Regional Maintenance Engineer

Central Office Oil &Gas Coordinator

Cc:

Brittany Woody Southwestern Energy CH, OM, D-6

File

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	Scale Inhibitor	Methanol	67-56-1	
Technologies)	3 cale illimbitor	Nonylphenol Ethoxylate	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	
, cermologies,		Quaternary Ammonium Compounds, Benzyl-C 12 16-Alkyldimethyl, Chlorides	68424-85-1	
		Methanol	67-56-1	
A 264 (Schlumberger)	C orrosion	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	
Try delide GA 25 (Schlamberger)	Biocide	Glutaral	111-30-8	
cale Inhibitor B317 (Schlumberger	Caala lahihita.	Tris odium Ortho Phos phate	7601-54-9	
	Scale Inhibitor	E thane-1,2-diol	107-21-1	
H 215 (S chlumberger)	Hydrochloric Acid	Hydrochloric Hydrochloric Acid		
J 218 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0	
EB-Clean* J 475 (Schlumberger)	Breaker	Diammonium Peroxidisulphate	7727-54-0	
Water Gelling Agent J 580 (Schlumberger)	Gel	Carbohydrate Polymer	Proprietary	
Friction Reducer J 609W	Friction	Ammonium Sulfate	7783-20-2	
(Schlumberger)	R educer	Urea	57-13-6	
Crosslinker J 610 (schlumberger)	Crosslinker -	P otassium Hydroxide	1310-58-3	
Cross mixer 3 010 (3 childhiberger)	Clossilikei	Aliphatic Polyol	Proprietary	
Iron Stabilizer L58 (Schlumberger)	Iron Stabilizer	S odium E rythorbate	6381-77-7	
40/70-Mesh Sand S012 (Schlumberger)	Sand	C rystalline S ilica	14808-60-7	
Sand S 100 (Schlumberger)	Sand	C rystalline S ilica	14808-60-7	
EC6486A (Nalco Champion)	S cale Inhibitor	Amine Triphosphate	Proprietary	
	3 cale inhibitor	E thylene Glycol	107-21-1	
SSA-2 (Halliburton)	Sand	C rystalline S ilica	14808-60-7	
FR-76 (Halliburton)	Friction	Inorganic salt		
	Reducer	Hydrotreated light petroleum distillate	64742-47-8	
LCA-1 (Halliburton)		Hydrotreated light petroleum distillate	Proprietary	
SP BREAKER (Halliburton)	Breaker	S odium Persulfate	7775-27-1	
HAI-150E (Halliburton)	C orrosion – Inhibitor –	Methanol Aliphatic Acids Prop-2-yn-1-ol	NA	
		Aliphatic Alcohols, Ethoxylated #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	



CALL BEFORE YOU DIG!

Dial 811 or 800.245.4848

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING AT LEAST 40 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WERKENDS AND HOLDAYS), PRIOR TO TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTRACT MISS UTILITY OF WEST WRIGINIA AT 811 OR 1-800-245-4848.

AS-BUILT SITE PLAN FOR GARY KESTNER PAD "A" LIBERTY DISTRICT, OHIO COUNTY, WV





087569022

AS SHOWN 01/11/2016

SCALE: DATE:

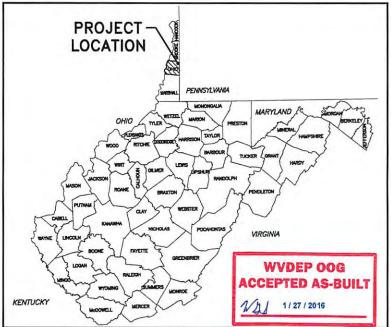
PAD

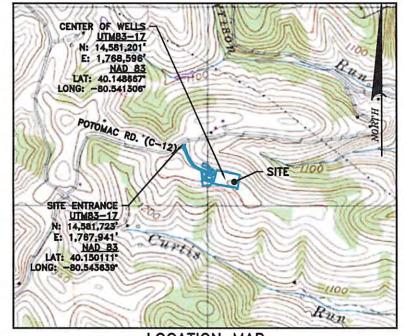
KESTNER

GARY

BY:

DRAWN





COUNTY

THIS ENGINEER'S CERTIFICATION COVERS UPDATING THE GARY KESTNER PAD "A" TO CURRENT WEST VIRGINIA STANDARDS AND COVERS ONLY THE ADDITION OF THE CONTAINMENT BERM, MOUNTABLE BERM AT THE PAD ENTRANCE AND THE RECLAMATION PLAN.

PRINTED NAME: BRIAN D. SPRAY, PE

SIGN NAME:

Southwestern Energy®

OPERATOR

SWN PRODUCTION CO., LLC P.O. BOX 1300 JANE LEW, WY 26378 (832) 796-1610

LIST OF DRAWINGS

..... RECLAMATION PLAN

TS1.1 COVER SHEET EP2.1 EVACUATION ROUTE/PREVAILING WINDS EP2.2 EVACUATION ROUTE/PREVAILING WINDS AS3.1 AS-BUILT OVERALL SITE PLAN AS3.2 AS-BUILT SITE PLAN AS3.3 AS-BUILT SITE PLAN CRA4.1 ACCESS ROAD PROFILE CRA4.2 WELL PAD CROSS SECTIONS TOTAL DISTURBED AREA: 8.0 ACRES OVERALL RECLAMATION PLAN

MRP5.3 RECLAMATION PLAN MRD6.1 DETAILS MRD6.2 DETAILS MRD6.3 DETAILS

LOCATION MAP

SCALE - 1"=1000"

SITE DATA

ROAD DISTURBED AREA: 2.5 ACRES

PAD DISTURBED ACRES: 5.5 ACRES ACCESS ROAD LENGTH: 787'

ACCESS ROAD AVERAGE WIDTH: 20'

WELL PAD ELEVATION: 1292.0'

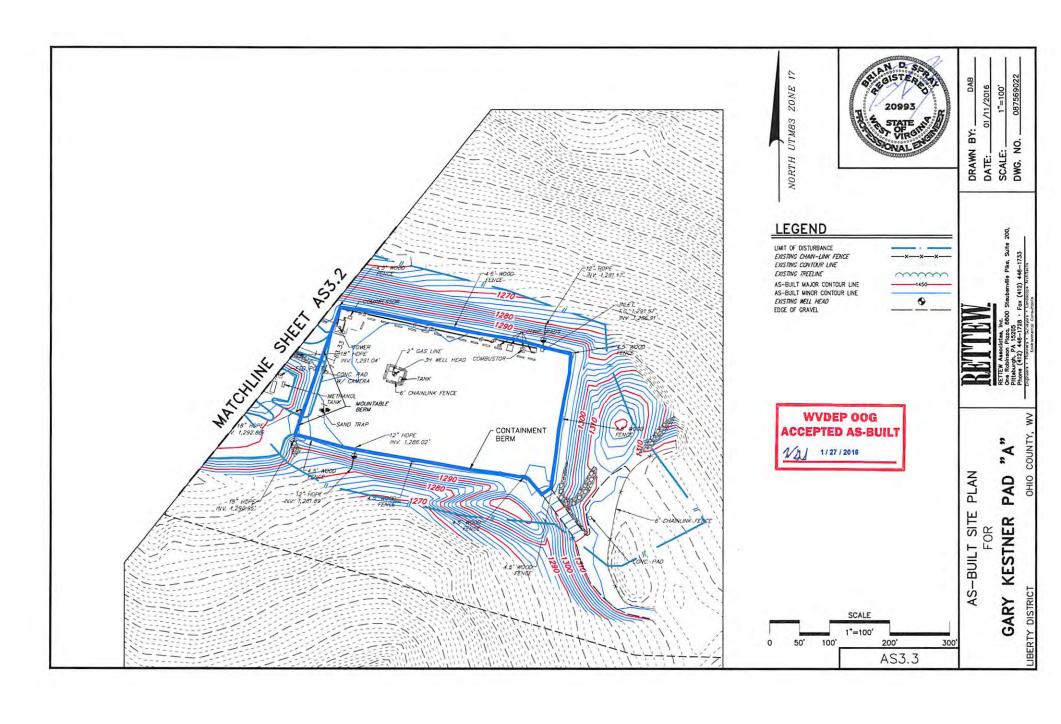
WELL API NUMBERS

API 069-00081

CELLAR CELLAR CELLAR DIAMETER DEPTH MATERIAL

TS1.1

COVER SHEET



PLAN

RECEIVED Office of Oil and Gas

JUN 1 2017

WV Department of Environmental Protection

087569022 SHOWN 01/11/2016 8×: OWG. NO. DRAWN

Steubenville Pike, Suite 200,

R PAD "A" O COUNTY, WV

OF WELLS CENTER UTM83-17 N: 14,581,201 E: 1,768,596 NAD 83 LAT: 40.148667° LONG: -80.541306° POTOMAC RD. (C-12) SITE ENTRANCE UTM83-17 14,581,723 Curtis 1,767,941 NAD 83 LAT: 40.150111 LONG: -80.543639

> MAP OCATION

COVER SHEET
FOR

GARY KESTNER

LIBERTY DISTRICT

COUNTY,

OHO

WINGS

ROUTE/PREVAILING WINDS ROUTE/PREVAILING WINDS VERALL SITE PLAN

TE PLAN ITE PLAN AD PROFILE ROSS SECTIONS

CLAMATION PLAN N PLAN N PLAN

SITE DATA

TOTAL DISTURBED AREA: 8.0 ACRES ROAD DISTURBED AREA: 2.5 ACRES PAD DISTURBED ACRES: 5.5 ACRES ACCESS ROAD LENGTH: 787 ACCESS ROAD AVERAGE WIDTH: 20' WELL PAD ELEVATION: 1292.0

API 069-00081 **3H**

CELLAR **CELLAR** CELLAR DIAMETER DEPTH MATERIAL 8 FT



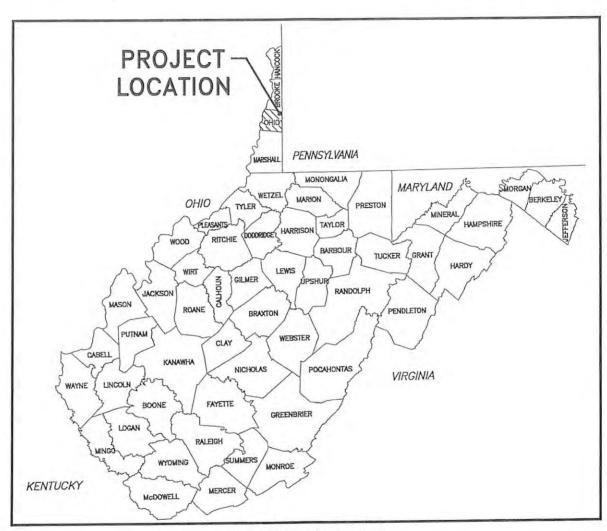
YOU DIG!

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Mine Utility of West Virginia

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO TO STARTING ANY EARTH DISTURBANCE ACTIVITIES, ALL CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848.

AS-BUILT SITE FOR GARY KESTNE LIBERTY DISTRICT, OHI



COUNTY MAP

N.T.S

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PRINTED NAME: BRIAN D. SPRAY, PE





Southwestern Energy®

OPERATOR

SWN PRODUCTION CO., LLC P.O. BOX 1300 JANE LEW, WV 26378 (832) 796-1610

LIST OF DRA

			 -	
TS1.1				. COVER SH
EP2.1				. EVACUATIC
EP2.2				. EVACUATIO
AS3.1				. AS-BUILT
AS3.2				. AS-BUILT
				. AS-BUILT
CRA4.1				. ACCESS RO
CRA4.2				. WELL PAD
MRP5.1				. OVERALL R
MRP5.2				. RECLAMATI
MRP5.3				. RECLAMATI
				. DETAILS
MRD6.2				. DETAILS
				. DETAILS

