west virginia department of environmental protection

Office of Oil and Gas
$60157^{\text {th }}$ Street, S.E.
Charleston, WV 25304
(304) 926-0450
fax: (304) 926-0452

Wednesday, April 19, 2017
WELL WORK PERMIT
Horizontal 6A / New Drill

## SWN PRODUCTION COMPANY, LLC (A)

POST OFFICE BOX 12359
SPRING, TX 773914954

## Re: Permit approval for EDWARD NICHOLS OHI 6H 47-069-00218-00-00

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.


Operator's Well Number: EDWARD NICHOLS OHI 6H
Farm Name: NICHOLS, EDWARD \& JUDITH
U.S. WELL NUMBER:47-069-00218-00-00

Horizontal 6A / New Drill
Date Issued: 4/19/2017
Promoting a healthy environment.

## 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

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 Numberr? 069002 i 8

## 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. 47-009 

OPERATOR WELL NO. EaradmadidaEM Well Pad Name: Edmadichas PAD

## STATE OF WEST VIRGINLA <br> DERARTMENT OR ENVGONMENTAL PROTECTION OEEICE OR OLL AND GAS WELL WORK PERMIT APPLICATION

1) Well Operator: SWN Production Co., LLC | 494512924 | O69-Ohio | 4-Richlag | 674 -Wheeling |
| :--- | :---: | :---: | :---: |
2) Operator's Well Number: Edward Nichols OHI 6H Well Pad Name: Edward Nichols PAD

3) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):

Terget Formation-Marcellus, Target Tap TVD-6228', Target Base TVD-624*, Anticipated Thlcknosse-14, Associated Pressuro- 3780
8) Proposed Total Vertical Depth: foro $\frac{1}{1}[31]^{1}$ BRIN
9) Formation at Total Vertical Depth: Marcellus
10) Proposed Total Measured Depth: 14337
11) Proposed Horizontal Leg Length: 7653.64'
12) Approximate Fresh Wator Strata Depths: 401
13) Method to Determine Fresh Water Depths: Offset Wells
14) Approximate Saltwater Depths: 671'
15) Approximate Coal Seam Depths: $567^{\circ}$
16) Approximate Depth to Possible Void (coal mine, karst, other): None that we are aware of.
17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine?

Yes $\qquad$ No $X$


Page 1 of 3

## 4706900218

ww-6B
(04/15)
API NO. 47-009 -
OPERATOR WELLNO. Gham Netcicien Well Pad Name: Edward Nactecs PAD
18)

CASING AND TUBING PROGRAM

| TYPE | $\frac{\text { Size }}{\text { (in) }}$ | $\begin{aligned} & \text { Now } \\ & \underline{\underline{0 x}} \\ & \underline{U S}_{\text {sed }} \end{aligned}$ | Grade | $\frac{\text { Weight perf }}{(\underline{l} / \mathrm{ft)}}$ | $\begin{aligned} & \text { FOOTAGR: For } \\ & \text { Drilling.(A) } \end{aligned}$ | $\begin{aligned} & \text { DNTERVALS: } \\ & \text { Left in Well } \end{aligned}$ <br> (ft) | $\begin{aligned} & \text { CEMENT: } \\ & \text { Fill-up } \\ & \text { (Cu. Ft)/fSS } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conductor | $20^{\prime \prime}$ | Now | H-40 | 94\# | $100^{\circ}$ | $10{ }^{\circ}$ | CTS |
| Fresh Water | $13388^{7}$ | New | H-40 | 48\# | $625^{\circ}$ | $625^{\circ}$ | 570 sx/CTS |
| Coal | $95 / 8^{\text {¹ }}$ | New | J-55 | 36\# | 2020' | 2020 ${ }^{\circ}$ | 756 swCTS |
| Intermediate | $7{ }^{7}$ | New | HCP-110 | 20\% | If Needed | If Needed | If NoededAs Nepsed |
| Production | $51 / 2^{\prime \prime}$ | Now | HCP-110 | 20\# | 14337' | $14337{ }^{\circ}$ | manmin |
| Tubing | 23/8 ${ }^{\text {² }}$ | Naw | HCP-110 | 4.7\# | Approx.629\% | Approx-6220, |  |
| Liners |  |  |  |  | USt |  |  |


$12 \cdot 14.16$

| TXPR | Size (in) | Wellibore <br> Diameter (in) | $\frac{\text { Wall }}{\text { Thickness }}$ (in) | $\frac{\text { Burst Pressure }}{\text { (psin) }}$ | $\frac{\text { Anticipated }}{}$ $\frac{\text { Max. Internal }}{\text { Pressure (psi) }}$ | $\frac{\text { Cement }}{\text { Type }}$ | $\begin{aligned} & \frac{\text { Cement }}{\text { Yield }} \\ & \text { (cu. A. } k \text { ) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Conductor | $20^{\circ}$ | $30^{\circ}$ | 0.25 | 2120 | 81 | Class A | 1.18/60\% Excess |
| Fresh Water | 13 3/8' | $17.5^{\square}$ | 0.380 | 2740 | 633 | Class A | 1.18/50\% Excoss |
| Coal | $95 / 8^{\prime \prime}$ | $121 / 4^{\prime \prime}$ | 0.395 | 3950 | 1768 | Class A | 1.19150\% Excoss |
| Intermediate | $7{ }^{\text {a }}$ | $83 / 4^{\prime \prime}$ | 0.317 | 4360 | 3250 | Class A | 120550\% Exces |
| Production | $51 / 2^{\prime \prime}$ | $83 / 4^{\prime \prime}$ | 0.361 | 12360 | 9500 | Class A | 1.20/60\% Excess |
| Tubing | $23 / 8^{\prime \prime}$ | $4.778^{\prime \prime}$ | 0.180 | Approx 8193' | Approx 8193 |  |  |
| Liners |  |  |  |  |  |  |  |

PACKERS

| Kind: | 10K Arrowset AS-1X |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Sizes: | $51 / 2^{\prime \prime}$ |  |  |  |
| Depths Set: |  |  |  |  |

Page 2 of 3
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): 17.5
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.

Office of Oil and Gas
*Note: Attach additional sheets as needed.

December 7, 2016
Ms. Laura Adkins
Office of Oil \& Gas
$60157^{\text {th }}$ Street
Charleston, WV 25304

RE: Proposed New Well Edward Nichols OHI 6H
Dear Ms. Adkins

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within $500^{\prime}$ of the lateral. This well is situated on the Nichols's property, in Richland District, Ohio County, West Virginia.

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

Thank you.


Dee Southall
Regulatory Supervisor
Southwestern Energy Production Company, LLC
PO Box 1300
Jane Lew, WV 26378

RECEIVED

Schlumberger Cement Additives

|  | Product Name | Product Use | Chemical Name | CAS Number |
| :---: | :---: | :---: | :---: | :---: |
| $\begin{aligned} & \text { 句 } \\ & \text { 总 } \\ & \hline \end{aligned}$ | SOO1 | accelerator | calcium chloride | 10043－52－4 |
|  | 5001 | accelerator | calclum chloride | 10043－52－4 |
|  | D080 | dispersant | sodium polynaphthalene sulfonate | 9008－63－3 |
| $\begin{aligned} & \bar{\circ} \\ & \times \infty \end{aligned}$ | D801 | retarder | aromatic polymer derivative | propriatary |
| 预 | 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 |
| \％ | D046 | antifoam | fullers earth（attapulgite） | 8031－18－3 |
| $\stackrel{1}{5}$ |  |  | chrystalline sillica | 14808－60－7 |
| 읖 | D201 | retarder | metal oxide | propriatary |
| 吕 |  |  | sulphonated synthetic polymer | propriatary |
| 는 | D202 | dispersant | formaldehyde（impurity） | propriatary |
|  | D046 | antifoam | polypropylene glycol | 25322－69－4 |
|  |  |  | fullers earth（attapulgite） | 8031－18－3 |
|  | D167 | fluid loss | aliphatic amide polymer | propriatary |
|  | D065 | dispersant | sodium polynaphthalene sulfonate | 9008－63－3 |
|  |  |  | sodium sulfate | 7757－82－6 |
|  | D201 | retarder | chrystalline silica | 14808－60－7 |
|  |  |  | metal oxide | propriatary |
|  | D153 | anti－settling | chrystalline silica | 14808－60－7 |

## RECEIVED Office of Oil and Gas

JAN 052017
WV Department of
Environmental Protection
04／21／2017


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

FLUIDS/ CUTTINGS DISPOSAL \& RECLAMATION PLAN
Operator Name SWN Production Company, LLC
OP Code 494512924

## Watershed (HUC 10) Peters Run of Little Wheeling Creek <br> Quadrangle <br> Wheeling

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes $\qquad$ № $\square$ Will a pit be used? Yes $\qquad$ No $\qquad$
If so, please describe anticipated pit waste: closed loop system in place at this time- cuttings will be taken to a permitted landfill
Will a synthetic liner be used in the pit? Yes $\square$ No $\square$ If so, what ml.?
Proposed Disposal Method For Treated Pit Wastes:


Land Application
Underground Injection (UIC Permit Number $\qquad$ ) Reuse (at API Number at next anticipated well, API \# will be included with the WR-34/DDMR \&/or permit addendum Off Site Disposal (Supply form WW-9 for disposal location) Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility

Will closed loop system be used? If so, describe: yes
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. Af fran to кор, fud carl met som foam кор to to
-If oil based, what type? Synthetic, petroleum, etc. synthetic oil base
Additives to be used in drilling medium? see attached sheets
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust)

 Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection, I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the gemplermindidAfebyer applicable law or regulation can lead to enforcement action.
of Oil
I certify under penalty of law that I have personally examined and am familiar with the informationsubfingon this application form and all attachments thereto and that, based on my inquiry of those individuals/Athyediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that the $\bar{y}$ are significant penalties for submitting false information, including the possibility of fine or imprisonment. WV Department of
Company Official Signature
Company Official (Typed Name) Dee Southall
Company Official Title Regulatory Supervisor

Subscribed and sworn before me this
 day of Ihcemoter

## SWN Production Company, LLC

Proposed Revegetation Treatment: Acres Disturbed 17.5 Prevegetation pH $\qquad$
Lime ${ }^{\text {as determined by } \text { pH test min. } 2}$ Tons/acre or to correct to pH 5.5
Fertilizer type 10-20-20
Fertilizer amount 600 lbs/acre

Mulch Hay/Straw 2.5
Tons/acre

## Seed Mixtures

## Temporary

## Seed Type <br> lbs/acre

**See Attachment

## Permanent

Seed Type Ibs/acre

Attach:
Maps(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided). If water from the pit will be land applied, include dimensions ( $\mathrm{L} \times \mathrm{W} \times \mathrm{D}$ ) of the pit, and dimensions ( $\mathrm{L} \times \mathrm{W}$ ), and area in acreage, of the land application area.

Photocopied section of involved $7.5^{\prime}$ topographic sheet.


Comments: $\qquad$
$\qquad$
$\qquad$
$\qquad$


## Drilling Mediums

Synthetic OilBrineBarite
Calcium Chloride
Lime
Organophilic Bentonite
Primary and Secondary Emulsifiers
Gilsonite
Calcium Carbonate
Friction Reducers


# 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 <br> WELL NAME: Edward Nichols OHI 6H Wheeling, QUAD Richland, DISTRICT Ohio COUNTY, WEST VIRGINIA

Submitted by:


Date: $\quad 12 / 5 / 2016$
Title: Regulatory Supervisor
SWN Production Co., LLC


Date: $\quad 12 \cdot 14 \cdot 16$
Title: $\qquad$
Approved by:
$\qquad$ Date:
Title: $\qquad$

SWN PRODUCTION COMPANY, LLC

$$
\begin{gathered}
\text { REGENED } \\
\text { Office of Oil and Gas } \\
\text { JAN } 052017 \\
\text { WV Department of } \\
\text { Environmental Protection } \\
\text { 04/21/2017 }
\end{gathered}
$$

JACKSON SURVEYING INC.

Latitude: $40^{\circ} 05^{\prime} 00^{\prime \prime} \mathrm{BH}$
P.O. Box 1460 677 W. Main St
Clarksburg, WV 26302


WELL RESTRICTIONS

1. NO OCCUPIED DWELLINGS $>2500$ SO F. WTHIN 625 FEET OF 2. 3. WATER WELLS OR DEVELOPED SPRINGS ARE WTHIN 250 FEET
 5. NO NATURALY PRODUCING TROUT SIREAM WTHIN 300 FEET OF
UMITS OF DISURAACE. E.
NO GROUND INAKEE OR PUBLIC WATER SUPPLY WITHIN 1000
FET OF WELI PAA, LMITS OF DISTURBANCE, E \& S CONTROLS OR
PUBUIC WATER SUPPIY

NOTES ON SURVEY BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR
TAXX PAACEL MAPS PROVDED BY CUENT AND/OR FIELD LOCATIONS 2. THS PLA DOES NDI REPRESENT A BOUNDARY SURVE OF THE
PARCEIS SHOWN HEREON. 4. All INSEIS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.
I. THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS
CORRECT TO THE EEST OF MY KNOWLEDE AND BEUEF AND SHOWS
AI THE INFORMATON REOURED BY ALR THE INFORMATION REQUIRED BY LAW AND REGUEFITONS ISSUED
AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.
as wo Nanrd 7. Patom

${ }^{(+)}$DENOTES LOCATION OF WELL ON MINIMUM UNTED STATES TOPOGRAPHIC MAPS WVDEP
OFFICE OF OIL \& GAS 601 57TH STREET CHARLESTON, WV 25034


| WELL TYPE: OIL | OIL WASTE DISPOSAL | PRODUCTIONX | DEEP | GASX | LIQUID INUECTION | Storage | SHALLOW X |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| WATERSHED: PETERS RUN OF LITLE WHEELING CREEK |  |  |  |  | ELEVATION: 1310. |  |  |
| DISTRICT: RICHLAND |  | COUNTY: OHIO |  |  |  |  |  |
| SURFACE OWNER: | WNER: EDWARD NICHOLS \& JU | H NCHOLS |  |  | ACREAGE: | $\pm 240.064$ |  |
| OIL \& GAS ROYAL | ROYALTY OWNER: EDWARD NIC | LS \& JUDITH NICHOL |  |  | ACREAGE: | $\pm 240.064$ |  |
| DRILLX DRIL | DRILL DEEPER | FRACTURE OR STIMULATE $X$ |  | PLUG OFF OLD FORMATION |  | PERFORATE NEW FORMATION $X$ |  |
| CONVERT | PLUG \& ABANDON | CLEAN OUT \& REPLUG |  | OTHER CHANGE | (SPECIFY) | 04/21/2017 <br> DEPTH: 6,317 TVD 14,337 TMD |  |
| TARGET FORMATION: MARCELLUS |  |  |  |  | ESTI |  |  |



## JACKSON SURVEYING

## INC.

P.O. Box 1460

677 W. Main St.
Clarksburg, WV 26302
304-623-5851

| WELL BORE TABLE FOR SURFACE /ROYALTY OWNERS |  |  |  |  |  |
| :---: | :---: | :---: | :--- | :--- | :---: |
| TRACT | SURFACE OWNER (S) /ROYALTY OWNER (R) | TAX PARCEL | ACRES |  |  |
| 1 | EDWARD NICHOLS \& JUDITH NICHOLS (S/R) | $04-R 15-16$ | 240.064 |  |  |
|  |  |  |  |  |  |
| TRACT | SURFACE OWNER | TAX PARCEL | ACRES |  |  |
| 2 | BRIAN R. MENGEU \& LISA M. MENGEU | $04-R 15-16.29$ | 1.262 |  |  |
| 3 | CRAIG E. STEPHAN \& JENNIFER L. GILES | $04-R 15-10$ | 1.74 |  |  |
| 4 | JOHN R. ANDERS II | $04-R 15-04$ | 3.24 |  |  |
| 5 | SARAH A. MARTIN \& ROBERT E. MARTIN | $04-R 15-03$ | 0.58 |  |  |
| 6 | SARAH A. MARTIN \& ROBERT E. MARTIN | $04-R 15-03.1$ | 0.55 |  |  |
| 7 | ROBERT KREISBERG \& MELINDA S. KREISBERG | $04-R 15-01$ | 2.32 |  |  |
| 8 | FREDERICK JAQUAY \& JANET JAQUAY | $04-R 18-07$ | 3.853 |  |  |
| 9 | MARK R. EDDY \& RENEE R. EDDY | $04-R 18-13$ | 1.17 |  |  |
| 10 | TOMMY J. TYLER JR, W J TYLER \& ETHEL TYLER | $04-R 18-12$ | 5.00 |  |  |
| 11 | JOHN G. HOFFMAN \& SHIRLEY LAYA HOFFMAN | $04-R 18-12.3$ | 15.93 |  |  |
| 12 | JOE HORVAT \& RUTH ELIZABETH HORVAT | $04-R 18-22$ | 5.193 |  |  |
| 13 | WILSON B. MILLER \& HELEN J. MILLER | $04-R 18-11$ | 125.442 |  |  |
| 14 | ROBERT HOFFMAN \& BESSIE HOFFMAN | $04-R 18-27$ | 42.00 |  |  |
| 15 | MICHAEL A. KUTHY | $06-T 2-27$ | 71.57 |  |  |
| 16 | JANET C.W. SPARKS \& WILLIAM SPARKS JR. | $06-T 2-31$ | 7.85 |  |  |
| 17 | WM C. GROVER \& RACHEL D. GROVER | $06-T 2-32$ | 19.59 |  |  |


| ADJOINING OWNERS TABLE |  |  |  |  |
| :---: | :---: | :--- | :--- | :---: |
| TRACT | SURFACE OWNER | TAX PARCEL | ACRES |  |
| AAA | KEVIN HESS \& STACEE L. HESS | $04-R 18-22.2$ | 1.007 |  |
| BBB | RANDEE JAY COX \& HEATHER M. COX | $04-R 18-22.1$ | 1.03 |  |
| CCC | JOE HORVAT \& RUTH ELIZABETH HORVAT | $04-R 18-22$ | 5.193 |  |
| DDD | JOE HORVAT \& RUTH ELIZABETH HORVAT | $04-R 18-13.2$ | 0.01 |  |
| EEE | DONALD T. THOMPSON \& MELISSA A. THOMPSON | $04-\mathrm{R18-19}$ | 1.02 |  |
| FFF | DONALD T. THOMPSON \& MELISSA A. THOMPSON | $04-R 18-18$ | 1.12 |  |
| GGG | TODD M. BOLINGER | $04-R 18-18.1$ | 0.474 |  |
| HHH | REBECCA J. MCKENNEN | $04-R 18-17$ | 1.52 |  |
| III | ROBERT J. MCCONNELL JR. | $04-R 18-15$ | 0.70 |  |
| JJJ | LISA M. NOLTE | $04-R 18-16$ | 1.14 |  |
| KKK | EDWARD D. LONG \& G.M. LONG | $04-R 18-05$ | 0.712 |  |
| LLL | A. LEE MCLAUGHLIN \& KATHLEEN A. MCLAUGHLIN | $04-R 18-06$ | 0.517 |  |
| MMM | GINA LYNN JONES MILLER | $04-R 15-08$ | 0.178 |  |
| NNN | RAYMOND CLOUSTON \& HYDEE D. CLOUSTON | $04-R 15-07$ | 1.761 |  |
| OOO | LARRY TRANK \& P. TRANK | $04-R 15-11$ | 0.35 |  |

04/21/2017



JACKSON SURVEYING

## INC.

P.O. Box 1460

677 W. Main St.
Clarksburg, WV 26302
304-623-5851

| ADJOINING OWNERS TABLE |  |  |  |
| :---: | :---: | :---: | :---: |
| TRACT | SURFACE OWNER | TAX PARCEL | ACRES |
| A | LARRY TRANK \& PATRICIA TRANK | 04-R15-11.1 | 0.55 |
| B | LARRY TRANK \& PATRICIA TRANK | 04-R15-16.17 | 0.62 |
| C | VENEIDA K. BAKER | 04-R15-16.15 | 2.16 |
| D | VENEIDA K. BAKER | 04-R15-16.28 | 0.576 |
| E | CHRISTOPHER T. NORMAN | 04-R15-16.25 | 1.21 |
| F | VENEIDA K. BAKER | 04-R15-16.30 | 0.232 |
| G | VENEIDA K. BAKER | 04-R15-16.16 | 1.09 |
| H | JEFFREY W. PFISTER \& JENNIFER J. PFISTER | 04-R15-16.33 | 1.36 |
| 1 | JEFFREY W. PFISTER \& JENNIFER J. PFISTER | 04-R15-16.34 | 0.419 |
| $J$ | RICHARD L. BRAK | 04-R15-16.21 | 1.173 |
| K | CECIL CHIPLINSKI \& TAMMY K. CHIPLINSKI | 04-R15-16.23 | 1.023 |
| L | PATTY M. JEWETT \& JAMES A. JEWETT | 04-R15-16.24 | 1.01 |
| M | LESLIE DAVID LEWIS | 04-R15-16.22 | 1.484 |
| N | GREGORY FUNARI \& DEANNA L. FUNARI | 04-R15-16.20 | 1.000 |
| 0 | OLDGA V. RINE \& DENISE E. RINE | 04-R15-16.4 | 1.049 |
| P | CHARLES L. HODGSON \& K.P. HODCSON | 04-R15-16.3 | 0.766 |
| Q | EDWARD E. NICHOLS \& MARJORIE C. NICHOLS | 04-R15-16.18 | 1.91 |
| R | EDWARD J. NICHOLS, <br> MARJORIE C. NICHOLS \& JUDY C. NICHOLS | 04-R15-16.31 | 0.192 |
| 5 | JUDITH C. NICHOLS | 04-R15-16.32 | 0.953 |
| T | EDWARD J. NICHOLS, <br> MARJORIE C. NICHOLS \& JUDY C. NICHOLS | 04-R15-16.19 | 0.219 |
| U | LAWRENCE D. BOLE \& J.L. BOLE | 04-R15-16.14 | 0.772 |
| V | LAWRENCE R. DIXON \& JAMES M. DIXON | 04-R15-16.7 | 0.875 |
| W | ANDREW S. GAUDINO | 04-R15-18 | 1.37 |
| X | TAMILA LYNN WADE, C/O TAMILA L. HIGLEY | 04-R15-16.10 | 2.73 |
| Y | BOARD OF COMMISSION OHIO COUNTY | 04-R15-16.11 | 3.09 |
| Z | LINDA H. ROSS | 04-R15-16.12 | 1.62 |
| AA | HAROLD L. PICKENS, DEBORAH A. MCCLELLAND | 04-R15-16.13 | 1.59 |
| BB | M \& J CONSTRUCTION | 04-R15-32.18 | 6.886 |
| CC | WEST RENTALS INC. | 04-R15-32 | 10.219 |
| DD | RONALD WILLIAM KASSERMAN \& ELIZABETH A. KASSERMAN | 04-R15-32.10 | 1.932 |
| EE | EDWARD M. PACK | 04-R18-7.1 | 2.14 |
| FF | RONALD A. CHILDERS | 04-R18-08 | 1.43 |
| GG | MARK R. EDDY \& RENEE R EDDY | 04-R18-13.1 | 0.10 |
| HH | TOMMY J. TYLER JR. \& TOMMY J. TYLER SR. | 04-R18-12.1 | 0.5327 |
| 11 | TOMMY J. TYLER JR. \& W. J. TYLER \& ETHEL TYLER | 04-R18-12.2 | 0.58 |
| JJ | KERRY A. MARSHALL JR. \& DANIELLE M. PHILLIPS | 06-T3-03.2 | 0.585 |
| KK | RICHARD P. SCOTT \& LEAH C. SCOTT | 06-T3-03.1 | 0.752 |
| LL | CARL E. GROVER \& SONDRA M. GROVER | 06-T3-31 | 1.0 |
| MM | JAMES J. KUTHY | 06-T3-32 | 1.0 |
| NN | WALTER PAUL JR., WALTER PAUL SR. \& CLARISSA L. PAUL | 06-T3-30 | 0.70 |
| 00 | MARY M. REICHENBACH | 06-12-33 | 1.5 |
| PP | MARY M. REICHENBACH | 06-T2-32.1 | 1.0 |
| QQ | MARY M. REICHENBACH | 06-T2-32.2 | 1.31 |
| RR | MARY M. REICHENBACH | 06-T2-32.3 | 1.31 |
| SS | LAURA KRINER | 06-T2-32.4 | 2.0 |
| $\pi$ | RACHAEL D. COLEMAN \& VINCENT S. COLEMAN | 06-T2-32.5 | 1.20 |
| UU | ROBERT A. ORUM | 06-T2-34.1 | 0.528 |
| W | DALE E. HOFFMAN \& SHIRLEY L. HOFFMMAN HOFFMAN FAMILY TRUST | 04-R18-27.1 | 13.28 |
| WW | ERIC P. WEISENBORN | 04-R18-27.5 | 10.00 |
| XX | ERIC P. WEISENBORN / | 04-R18-23 | 1.45 |
| Y | MARY BETH LAFOLLETT \& KAYLA MARIE BRITTON | 04-R18-21.3 | 2.80 |
| ZZ | MARY BETH LAFOLLETT \& KAYLA MARIE BRITTON | 04-R18-20 | 2.90 |

04/21/2017

| REVISIONS: | COMPANY: | SWN <br> Production Company, LLC |  | $\frac{R^{2}}{A} \sim V^{+\infty}$ |
| :---: | :---: | :---: | :---: | :---: |
|  | OPERATOR'S WELL \#: | EDWARD NICHOLS OHI6 H |  | DATE: 12-20-2016 |
|  |  |  |  |  |
|  |  |  |  | DRAWN BY: N. MANO |
|  | $\begin{aligned} & \text { DISTRICT: } \\ & \text { RICHLAND } \end{aligned}$ | $\begin{aligned} & \text { COUNTY: } \\ & \text { OHIO } \end{aligned}$ | STATE: W | SCALE: $\mathrm{N} / \mathrm{A}$ |
|  |  |  |  | DRAWING NO: |

[^0]
## INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE <br> 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 $\quad$ Book/Page

## SEE EXHIBIT "A"

## Acknowledgement of Possible Permitting/Approval <br> 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:
By:
Its:


Page YAN of 52017

EXHIBIT "A"
Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by Chesapeake Appalachia, L.LC., Operator
Edward Nichols OH 3 H
Ohio County, West VIrginia

| \# | TMP | LEASE \# | LESSOR | LESSEE | ROYALTY | BK/PG |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1) | 4-R15-16 | 730207 | Edward E Nichols, single and Judith C Nichols | Great Lakes Energy Partners, LLC | 14\% | 771/287 |
|  |  |  |  | Chesapeake Appalachia, L.L.C. |  | 808/427 |
|  |  |  |  | SWN Production Company, LLC |  | 884/181 |
| 2) | 4-R15-16-29 | 729439 | Brian R Mengeu and Lisa M Mengeu | Chesapeake Appalachia, L.L.C. | 18\% | 813/154 |
|  |  |  |  | SWN Production Company, LLC |  | 884/133 |
| 3) | 4-R15-10 | 729145 | Paula C Stephen | Chesapeake Appalachia, L.L.C. | 18\% | 810/143 |
|  |  |  |  | SWN Production Company, LLC |  | 883/303 |
| 4) | 4-R15-4 | 736387 | John R Anders II | Chesapeake Appalachia, L.L.C. | 18\% | 830/484 |
|  |  |  |  | SWN Production Company, LLC |  | 884/729 |
| 5) | 4-R15-3 | 731180 | Harry E Castle and Virginia R Castle | Chesapeake Appalachia, L.L.C. | 18\% | 813/399 |
|  |  |  |  | SWN Production Company, LLC |  | 885/764 |
| 6) | 4-R15-3-1 | 731206 | Harry E Castle and Virginia R Castle | Chesapeake Appalachia, L.L.C. | 18\% | 813/403 |
|  |  |  |  | SWN Production Company, LLC |  | 883/415 |
| 7) | 4-R15-1 | 735681 | Robert Kreisberg and Melinda 5 Kreisberg | Chesapeake Appalachia, L.L.C. | 18\% | 820/1 |
|  |  |  |  | SWN Production Company, LLC |  | 884/681 |
| 8) | 4-R18-7 | 727348 | Frederick Jaquay and Janet Jaquay | Chesapeake Appalachia, L.L.C. | 12.5\% | 803/353 |
|  |  |  |  | SWN Production Company, LLC |  | 883/427 |
| 9) | 4-R18-13 | 728404 | Mark R Eddy and Renee R Eddy | Chesapeake Appalachia, LLC. | 18\% | 807/646 |
|  |  |  |  | SWN Production Company, LLC |  | 883/403 |
| 10) | 4-R18-12 | 728225 | Tommy Jacob Tyler, Jr. | Chesapeake Appalachia, L.L.C. | 18\% | 806/211 |
|  |  |  |  | SWN Production Company, LLC |  | 883/379 |
| 11) | 4-R18-22 | 728401 | Joe Horvat and Ruth Elizabeth Horvat | Chesapeake Appalachia, L.L.C. | 12.5\% | 807/635 |
|  |  |  |  | SWN Production Company, LLC |  | 883/403 |

## EXHIBIT "A"

Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by Chesapeake Appalachia, L.L.C., Operator Edward Nichols

OH 6 H
Ohio County, West Virginia

| 12) | 4-R18-12-3 | 728225 | Tommy Jacob Tyler, Jr. | Chesapeake Appalachia, L.L.C. SWN Production Company, LLC | 18\% | $\begin{aligned} & \hline 808 / 211 \\ & 883 / 379 \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 13) | 4-R18-11 | 726152 | Helen J Miller | Chesapeake Appalachia, L.L.C. | 14\% | 798/728 |
|  |  |  |  | SWN Production Company, LLC |  | 885/776 |
| 14) | 4-R18-27 | 730039 | Robert L Hoffman and Bessie Hoffman | Great Lakes Energy Partners, LLC | 12.5\% | 776/11 |
|  |  |  |  | Chesapeake Appalachia, L.L.C. |  | 808/375 |
|  |  |  |  | SWN Production Company, LLC |  | 885/470 |
| 15) | 6-T2-27 | 729289 | Michael A Kuthy | Chesapeake Appalachia, L.L.C. | 18\% | 810/11 |
|  |  |  |  | SWN Production Company, LLC |  | 883/144 |
| 16) | 6-T2-31 | 16-01456 | Janet C Wineman Sparks | SWN Production Company, LLC | 15\% | 911/179 |
| 17) | 6-T2-32 | 735838-001 | Donna Jean Grover | Chesapeake Appalachia, L.L.C. | 18\% | 825/495 |
|  |  | 735838-002 |  | SWN Production Company, LLC |  | 885/105 |
|  |  |  | Edwin Russell Becker II | Chesapeake Appalachia, L.L.C. | 18\% | 824/278 |
|  |  |  |  | SWN Production Company, LLC |  | 885/105 |

December 20, 2016

Ms. Laura Adkins

WV DEP Office of Oil and Gas
$60157^{\text {th }}$ Street, SE
Charleston, WV 25304

## RE: SWN's proposed Edward Nichols OHI 6 H <br> Ohio County, West Virginia

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 Chapel Hill 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,

John D. Startz, CPL
Senior Staff Landman

## RE6EIVED <br> Office of Oil and Gas

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

Date of Notice Certification: $\qquad$

## Notice has been given:

Pursuant to the provisions in West Virginia Code § 22-6A, the Operator has provided the required parties with the Notice Forms listed below for the tract of land as follows:

| State: | West Virginia |
| :--- | :--- |
| County: | O69-Ohio |
| District: | Richlans |
| Quadrangle: | Wheeling |
| Watershed: | Peters Run of Little Wheeling Creek |


| UTM NAD 83 | Easting: <br> Northing: | 531512.638 <br> Public Road Access: |
| :--- | :--- | :--- |
| Generally used farm name: Peters Run Road <br>   |  |  |

Operator's Well No. Edward Nichols OHI 6H

Well Pad Name: Edward Nichols PAD

Pursuant to West Virginia Code § 22-6A-7(b), every permit application filed under this section shall be on a form as may be prescribed by the secretary, shall be verified and shall contain the following information: (14) A certification from the operator that (i) it has provided the owners of the surface described in subdivisions (1), (2) and (4), subsection (b), section ten of this article, the information required by subsections (b) and (c), section sixteen of this article; (ii) that the requirement was deemed satisfied as a result of giving the surface owner notice of entry to survey pursuant to subsection (a), section ten of this article six-a; or (iii) the notice requirements of subsection (b), section sixteen of this article were waived in writing by the surface owner; and Pursuant to West Virginia Code § 22-6A-11(b), the applicant shall tender proof of and certify to the secretary that the notice requirements of section ten of this article have been completed by the applicant.

| Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: | OOG OFFICE USE |
| :---: | :---: |
| *PLEASE CHECK ALL THAT APPLY | ONLY |
| 1. NOTICE OF SEISMIC ACTIVITY or $\square$ NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED | RECEIVED/ NOT REQUIRED |
| $\square$ 2. NOTICE OF ENTRY FOR PLAT SURVEY or ${ }^{\square}$ NO PLAT SURVEY WAS CONDUCTED | $\square$ RECEIVED |
| 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or | $\square$ RECEIVED/ NOT REQUIRED |
| WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) |  |
| 回 4. NOTICE OF PLANNED OPERATION | $\square$ RECEIVED |
| $\square$ 5. PUBLIC NOTICE | $\square$ RECEIVED |
| $\square$ 6. NOTICE OF APPLICATION | $\square$ RECEIVED |

## Required Attachments:

The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notigethathayeragen provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attactrabd my mis Class II Legal
 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 bydaffifayt gipprsonal service, the return receipt card or other postal receipt for certified mailing.

## Certification of Notice is hereby given:

THEREFORE, I $\qquad$ , have read and understand the notice requirements within West Virginia Code § 226 A . I certify that as required under West Virginia Code $\S 22-6 \mathrm{~A}$, 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.




## 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.

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: $\qquad$ Date Permit Application Filed: $\qquad$

## Notice of:

## $\checkmark$ PERMIT FOR ANY <br> WELL WORK

## $\square$ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

## PERSONAL $\square$ REGISTERED $\square$ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code $\S 22-6 \mathrm{~A}-10$ (b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.
$\square$ Application Notice $\square$ WSSP Notice $\square$ E\&S Plan Notice $\square$ Well Plat Notice is hereby provided to:

| $\square$ SURFACE OWNER(s) |
| :--- |
| Name: Edward Nichols \& Judith Nichols |
| Address: 141 Nichols Rd |
| Wheeling, WV 26003 |
| Name: |
| Address: |
| $\square$ SURFACE OWNER(s) (Road and/or Other Dist |
| Name: |
| Address: |
| Name: |
| Address: |
| $\square$ SURFACE OWNER(s) (Impoundments or Pits) |
| Name: |
| Address: |

$\square$ COAL OWNER OR LESSEE

| Name: H3, LLC |
| :--- |
| Address: Rt. 1 Box 605 |
| Milton, WV 25541 |
| DCOAL OPERATOR |
| Name: |
| Address: |
| SURFACE OWNER OF WATER WELL |
| AND/OR WATER PURVEYOR(s) |

Name: NONE
Address:
IOPERATOR OF ANY NATURAL GAS STORAGE FIELD Name:
 Address: Qfice of Qiland Gas

[^1]Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: $\qquad$ Date Permit Application Filed: Notice of:

## ( PERMIT FOR ANY WELL WORK

## $\square$ CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

Delivery method pursuant to West Virginia Code § 22-6A-10(b)

## PERSONAL $\square$ REGISTERED $\square$ METHOD OF DELIVERY THAT REQUIRES A SERVICE MAIL RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code $\S 22-6 \mathrm{~A}-10(\mathrm{~b})$ no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.
$\square$ Application Notice $\square$ WSSP Notice $\square E \& S$ Plan Notice $\square$ Well Plat Notice is hereby provided to:

```
\squareSURFACE OWNER(s)
```

Name:
Address:

## Name:

Address:
$\square$ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name:
Address:

## Name:

Address:
$\square$ SURFACE OWNER(s) (Impoundments or Pits)
Name:
Address:
$\square$ COAL OWNER OR LESSEE
Name: Valley Camp Coal Company
Address: 910 Louisiana Street
Houston, TX 77002
$\square$ COAL OPERATOR
Name:
Address:
$\square$ SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)
Name: See Attachment\#1
Address:

## ■OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name:
Address:
FEGETVED Offieq of Oliand Gas

[^2]Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: $\qquad$ Date Permit Application Filed: $\qquad$
Notice of:

## ( $\downarrow$ PERMIT FOR ANY WELL WORK <br> CERTIFICATE OF APPROVAL FOR THE <br> CONSTRUCTION OF AN IMPOUNDMENT OR PIT

## Delivery method pursuant to West Virginia Code § 22-6A-10(b)



SERVICE
( REGISTERED MAIL

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.
$\square$ Application Notice $\square$ WSSP Notice $\square E \& S$ Plan Notice $\square$ Well Plat Notice is hereby provided to:
$\square$ SURFACE OWNER(s)
Name:
Address:

## Name:

Address:
$\square$ SURFACE OWNER(s) (Road and/or Other Disturbance)
Name:
Address:

## Name:

Address:

## $\square$ SURFACE OWNER(s) (Impoundments or Pits)

 Name: Address:

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application.
Date of Notice: $\qquad$ Date Permit Application Filed: $\qquad$ Notice of:

T PERMIT FOR ANY<br>WELL WORK

$\square$ CERTIFICATE OF APPROVAL FOR THE
CONSTRUCTION OF AN IMPOUNDMENT OR PIT

## Delivery method pursuant to West Virginia Code § 22-6A-10(b)

## $\square$ PERSONAL SERVICE <br> T REGISTERED MAIL <br> $\square$ METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § $22-6 \mathrm{~A}-10(\mathrm{~b})$ no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") 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.
$\square$ Application Notice $\square$ WSSP Notice $\square E \& S$ Plan Notice $\square$ Well Plat Notice is hereby provided to:
$\square$ SURFACE OWNER(s)
Name:
Address:

## Name:

Address:
$\square$ SURFACE OWNER(s) (Road and/or Other Disturbance) Name:
Address:

## Name:

Address:
SURFACE OWNER(s) (Impoundments or Pits)
Name:
Address:

OCOAL OWNER OR LESSEE
Name: Judith C. Nichols
Address: 156 Nichols Road
Wheeling. WV 26003
-COAL OPERATOR
Name:
Address:


## 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 artiele; 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 $60157^{\text {th }}$ 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
 other approval from the United States Army Corps of Engineers within any waters of the state or within the resticted areas referenced in this section. (d) The well location restrictions set forth in this section shall not apply to any welminmumplent ing iqasist 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 horizodAN(O) 5 atily 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 rafve meapigptinent of items
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
$60157^{\text {hh }}$ St. SE
Charleston, WV 25304
Offies of Oll and Gas
(304) 926-0450

JAN 0.52017
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.

## Notice is hereby given by:



Address: P.O. Box 1300
Jane Lew, WV 26378
Facsimile: $\qquad$

## 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.


JAN 052017

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

Pursuant to W. Va. Code § $22-6 \mathrm{~A}-16(\mathrm{~b})$, 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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.
Date of Notice: $12 / 06 / 2016$
Date Permit Application Filed:
Delivery method pursuant to West Virginia Code § 22-6A-16(b)

```
HAND
DELIVERY
CERTIFIED MAIL
RETURN RECEIPT REQUESTED
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Pursuant to W. Va. Code § 22-6A-16(b), at least ten days prior to filing a permit application, an operator shall, by certified mail return receipt requested or hand delivery, give the surface owner notice of its intent to enter upon the surface owner's land for the purpose of drilling a horizontal well: Provided, That notice given pursuant to subsection (a), section ten of this article satisfies the requirements of this subsection as of the date the notice was provided to the surface owner: Provided, however; That the notice requirements of this subsection may be waived in writing by the surface owner. The notice, if required, shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative.

## Notice is hereby provided to the SURFACE OWNER(s):

Name: Edward Nichols \& Judith Nichols
Address: 141 Nichols Rd.
Wheeling, WV 26003

Name:
Address:

## Notice is hereby given:

Pursuant to West Virginia Code $\S 22-6 A-16(\mathrm{~b})$, notice is hereby given that the undersigned well operator has an intent to enter upon the surface owner's land for the purpose of drilling a horizontal well on the tract of land as follows:

| State: | West Virginia | UTM NAD 83 | Easting: | 531,512.638 |
| :---: | :---: | :---: | :---: | :---: |
| County: | Ohio | M NAD | Northing: | 4,439,024.803 |
| District: | Richland | Public Road Ac | ess: |  |
| Quadrangle: | Wheeling, WW | Generally used | arm name: | Edward Nichols |

## This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at $60157^{\text {th }}$ Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

## Notice is hereby given by:

| Well Operator: | SWN Production Company, LLC |
| :--- | :--- |
| Address: | $\frac{\text { PO Box 1300, 179 Innovation Drive }}{\text { Jane Lew, WW } 26378}$ |
| Telephone: | $304-517-6603$ |
| Email: | Michael_Yates@swn.com |
| Facsimile: | $304-471-2497$ |


| Authorized Representative: | Mike Yates |
| :--- | :--- |
| Address: | $\frac{\text { PO Box 1300, 179 Innovation Drive }}{\text { Jane Lew, WW } 26378}$ |
| Telephone: | $\frac{304-517-6603}{\text { Michael_Yates@swn.com }}$ |
| Email: <br> 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 rotmatedufer business or as
 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.

# STATE OF WEST VIRGINIA 

Notice Time Requirement：notice shall be provided no later than the filing date of permit application． Date of Notice：${ }^{12 / 06 / 2016}$

Date Permit Application Filed： $\qquad$

## Delivery method pursuant to West Virginia Code § 22－6A－16（c）

（⿴囗⿱一一日 CERTIFIED MAIL RETURN RECEIPT REQUESTED

## HAND DELIVERY

Pursuant to W．Va．Code § 22－6A－16（c），no later than the date for filing the permit application，an operator shall，by certified mail return receipt requested or hand delivery，give the surface owner whose land will be used for the drilling of a horizontal well notice of the planned operation．The notice required by this subsection shall include：（1）A copy of this code section；（2）The information required to be provided by subsection（b），section ten of this article to a surface owner whose land will be used in conjunction with the drilling of a horizontal well；and（3）A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six－b of this chapter． （d）The notices required by this section shall be given to the surface owner at the address listed in the records of the sheriff at the time of notice．

Notice is hereby provided to the SURFACE OWNER（s）
（at the address listed in the records of the sheriff at the time of notice）：

$\qquad$
Address：

## Notice is hereby given：

Pursuant to West Virginia Code § 22－6A－16（c），notice is hereby given that the undersigned well operator has developed a planned operation on the surface owner＇s land for the purpose of drilling a horizontal well on the tract of land as follows：

| State： | West Virginia | UTM NAD 83 | Easting： | 531．512．638 |
| :---: | :---: | :---: | :---: | :---: |
| County： | Ohio | TMNAD 83 | Northing： | 4，439，024．803 |
| District： | Richland | Public Road Ac | ess： |  |
| Quadrangle： | Wheeling，W | Generally used | rm name： | Edward Nichols |

## This Notice Shall Include：

Pursuant to West Virginia Code § 22－6A－16（c），this notice shall include：（1）A copy of this code section；（2）The information required to be provided by W．Va．Code $\S 22-6 \mathrm{~A}-10(\mathrm{~b})$ to a surface owner whose land will be used in conjunction with the drilling of a horizontal well；and（3）A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six－b of this chapter．Additional information related to horizontal drilling may be obtained from the Secretary，at the WV Department of Environmental Protection headquarters，located at $60157^{\text {th }}$ Street，SE，Charleston，WV 25304 （304－926－0450）or by visiting www．dep．wv．gov／oil－and－ gas／pages／default．aspx．

| Well Operator： | SWN Production Company，LLC |
| :--- | :--- |
| Telephone： | 304－517－6603 |
| Email： | Michae！＿Yates＠swn．com |


| Address： | PO Box 1300， 179 Innovation Drive |
| :--- | :--- |
| Facsimile： | $304-471-2497$ |

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 persoratifemitamblease contact DEP＇s Chief Privacy Officer at depprivacyofficer＠wv．gov．

# WEST VIRGINIA DEPARTMENT OF TRANSPORTATION Division of Highways 

1900 Kanawha Boulevard East • Building Five • Room 110

Earl Ray Tomblin Governor

Charleston, West̂ Virginia 25305-0430 • (304) 558-3505
Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

December 5, 2016
James A. Martin, Chief
Office of Oil and Gas
Department of Environmental Protection
$60157^{\text {th }}$ Street, SE
Charleston, WV 25304
Subject: DOH Permit for the Edward Nichols Pad, Ohio County Edward Nichols OHI 6H

Dear Mr. Martin,
The West Virginia Division of Highways has transferred Permit \#06-2011-0181 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 25 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.


| Product Name | Product Use | Chemical Name | CAS Number |
| :---: | :---: | :---: | :---: |
| EC6734A (Champion Technologies) | Biocide | Hydrogen Peroxide | 7722-84-1 |
|  |  | Acetic Acid | 64-19-7 |
|  |  | Peroxyacetic Acid | 79-21-0 |
| GYPTRON T-390 (Champion Technologies) | Scale Inhibitor | Methanol | 67-56-1 |
|  |  | Nonylphenol Ethoxylate | Proprietary |
| Bactron K-139 (Champion Technologies) | Biocide | Glutaraldehyde | 111-30-8 |
|  |  | Quaternary Ammonium Compounds, Benzyl-C12. 16-Alkyldimethyl, Chlorides | 68424-85-1 |
|  |  | Ethanol | 64-17-5 |
| Bactron K-219 (Champion Technologies) | Biocide | Methanol | 67-56-1 |
|  |  | Quaternary Ammonium Compounds, Benzyl-C12 16-Alkyldimethyl, Chlorides | 68424-85-1 |
| A264 (Schlumberger) | Corrosion Inhibitor | Methanol | 67-56-1 |
|  |  | Aliphatic Acids | Proprietary |
|  |  | Prop-2-yn-1-ol | 107-19-7 |
|  |  | Aliphatic Alcohols, Ethoxylated \#1 | Proprietary |
| Myacide GA 25 (Schlumberger) | Biocide | Water | 7732-18-5 |
|  |  | Glutaral | 111-30-8 |
| Scale Inhibitor B317 (Schlumberger) | Scale Inhibitor | Trisodium Ortho Phosphate | 7601-54-9 |
|  |  | 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 <br> (Schlumberger) | Gel | Carbohydrate Polymer | Proprietary |
| Friction Reducer J609W (Schlumberger) | Friction Reducer | Ammonium Sulfate | 7783-20-2 |
|  |  | Urea | 57-13-6 |
| Crosslinker J610 (schlumberger) | Crosslinker | Potassium Hydroxide | 1310-58-3 |
|  |  | Aliphatic Polyol | Proprietary |
| Iron Stabilizer L58 (schlumberger) | Iron Stabilizer | Sodium Erythorbate | 6381-77-7 |
| 40/70-Mesh Sand S012 <br> (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 $\quad \mathrm{F}$ |  |
| SSA-2 (Halliburton) | Sand | Crystalline Silica Olicoer |  |
| FR-76 (Halliburton) | Friction Reducer | Inorganic salt | N6078290778 |
| LCA-1 (Halliburton) |  | Hydrotreated light petroleum distillatin | proprietary |
| SP BREAKER (Halliburton) | Breaker | Sodium Persulfate Fnvironn | 9735-29] |


| Product Name | Product Use | Chemical Name | CAS Number |
| :---: | :---: | :---: | :---: |
| HAI-150E (Halliburton) | Corrosion Inhibitor | Methanol | NA |
|  |  | Aliphatic Acids |  |
|  |  | Prop-2-yn-1-ol |  |
|  |  | Aliphatic Alcohols, Ethoxylated \#1 |  |
| 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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51 H $47-069-00217$
$1 / 6$
6H 47-064-00218




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[^1]:    *Please attach additional forms if necessary
     2017

[^2]:    *Please attach additional forms if necessary

