

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street SE Charleston, WV 25304 (304) 926-0450 (304) 926-0452 fax Earl Ray Tomblin, Governor Randy C. Huffman, Cabinet Secretary www.dep.wv.gov

March 28, 2016

WELL WORK PERMIT

Horizontal 6A Well

This permit, API Well Number: 47-6900209, issued to SWN PRODUCTION COMPANY, LLC, 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 all 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 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

Chief

Operator's Well No: GARY KESTNER OHI 10H

Farm Name: KESTNER, GARY & TERRY

API Well Number: 47-6900209

Permit Type: Horizontal 6A Well

Date Issued: 03/28/2016

| API Number: | |
|-------------|--|
| | |

PERMIT CONDITIONS 47 0 6 9 0 0 2 0 9

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. 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.
- 8. 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.
- 9. 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.



PO Box 1300 Jane Lew, WV 26378 PHONE: (832) 796-1610

January 12, 2016

Ms. Laura Adkins Office of Oil & Gas 601 57th Street Charleston, WV 25304 4706900209

RE: Proposed New Well Gary Kestner OHI 8H & Gary Kestner OHI 10H

Dear Ms. Adkins:

Enclosed please find the Well Work Permit Applications for the above captioned wells. These wells are 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 Received
Office of Oil & Gas
JAN 1 3 2016

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

| API NO. 47-59 | | |
|----------------|------|----------------------|
| OPERATOR WELL | NO. | Gary Kestner OHI 10H |
| Well Pad Name: | Gary | (Bather PAD |

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

| 1) Well Operat | tor: SWN I | Production C | o., LLC | 494512924 | 69- Ohio | | 247-Bethany |
|------------------------------------|---------------|-----------------|------------|-----------------------------------------|----------------|-----------------|---------------------------------------|
| | | | | Operator ID | County | District | Quadrangle |
| 2) Operator's V | Well Numbe | r: Gary Kest | ner OHI | 10H Well Pa | d Name: Gary | Kestner P | AD |
| 3) Farm Name | /Surface Ow | ner: Gary & | Terry Ke | estner Public Ro | ad Access: Gre | eggsville, Clir | nton & Potomac Road |
| 4) Elevation, c | urrent groun | d: 1292' | Ei | evation, proposed | post-construct | ion: 1292' | |
| 5) Well Type | (a) Gas | x | _ Oil | Und | erground Stora | ge | |
| | Other | | | | | | |
| | (b)If Gas | Shallow | X | Deep | | | |
| | | Horizontal | x | | | | |
| 6) Existing Pac | | | | | _ | | |
| | | | | ipated Thickness rget Base TVD-6492' | | | ociated Pressure- 3881 |
| 8) Proposed To | tal Vertical | Depth: 648 | 3' | | | | |
| 9) Formation a | t Total Verti | ical Depth: | Marcellus | <u> </u> | | | |
| 10) Proposed T | otal Measur | red Depth: | 16,013' | | | | |
| l 1) Proposed H | Horizontal L | eg Length: | 9140.50' | | | | |
| l2) Approxima | ate Fresh Wa | iter Strata Dej | oths: | 647' | | | |
| 13) Method to | Determine F | resh Water D | epths: f | rom nearby wate | r wells and of | fset wells | |
| l4) Approxima | ite Saltwater | Depths: 78 | 0' | | | | |
| l5) Approxima | ite Coal Sear | n Depths: 6 | 47' | | | | |
| 6) Approxima | te Depth to | Possible Void | l (coal mi | ne, karst, other): | None that we | are aware | of. |
| 17) Does Propo lirectly overlyi | | | | ns Yes | No | x | |
| (a) If Yes, pro | ovide Mine I | info: Name: | | | | | |
| | | Depth: | | | | | |
| | | Seam: | ******* | | | | |
| | | Owner | | | | | · · · · · · · · · · · · · · · · · · · |
| | | 0101 | • | | | | |
| | | | | Cin | 20 | | Page 1 of 3 |
| | | | | 3.1.16 | | | |

| API NO. 4769 | |
|--------------------|----------------------|
| OPERATOR WELL NO | Gary Kestner OHI 101 |
| Well Pad Name: Gen | y Kastner 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 | J-55 | 48# | 697' | 697' | 633 sx/CTS |
| Coal | 9 5/8" | New | J-55 | 36# | 2045' | 2045' | 759 sx/CTS |
| Intermediate | 7" | New | J-55 | 20# | If Needed | If Needed | If Needed/As Needed |
| Production | 5 1/2° | New | HCP-110 | 20# | 16013' | 16013' | Lord SSI to 22 2132cm07 buildings |
| Tubing | 2 3/8' | New | P-110 | 4.7# | Approx. 6483' | Approx. 64831 | |
| Liners | | | | | | | |

| TYPE | Size (in) | Wellbore Diameter (in) | Wall Thickness (in) | Burst Pressure (psi) | Max. Associated Surface Pressure (psi) | Cement Type | Cement Yield (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 | 1.20/15% Excess |
| Production | 5 1/2" | 8 3/4" | 0.361 | 12360 | 9500 | Class A | 1.20/15% Excess |
| Tubing | 2 3/8" | 4.778" | 0.190 | | _ | | |
| Liners | | | | | | | |

PACKERS

| Kind: | 10K Arrowset AS1-X | | |
|-------------|--------------------|--|--|
| Sizes: | 5 1/2" | | |
| Depths Set: | | | |

Page 2 of 3

| WW-6B | |
|---------|--|
| (10/14) | |

API NO. 47- 69 OPERATOR WELL NO. Gary Kestner OHI 10H
Well Pad Name: Gary Kestner PAD

| 19 | Describe propose | d 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'-70' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50'-70' 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, | stocknile area | nits etc | (acres): | 8.0 |
|-----|-----------------|---------------|------------------|-----------------|-------------|----------|--------|
| / | 1 otal . Hou to | oc distarbed, | merading rodds, | stockpile area, | pits, etc., | (acres). | () - (|

- 22) Area to be disturbed for well pad only, less access road (acres):
- 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 ***

4706900209

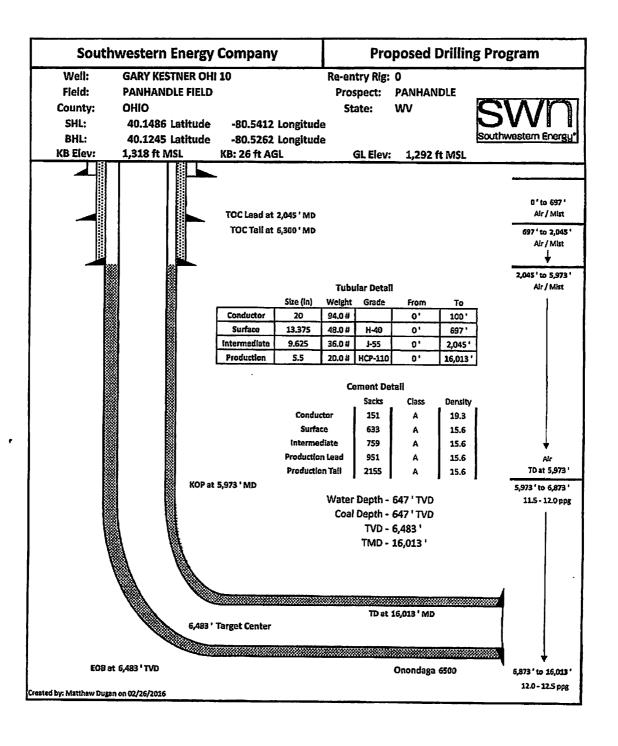
25) Proposed borehole conditioning procedures:

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.

Received Office of Oil & Gas

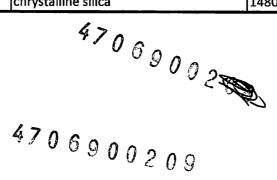
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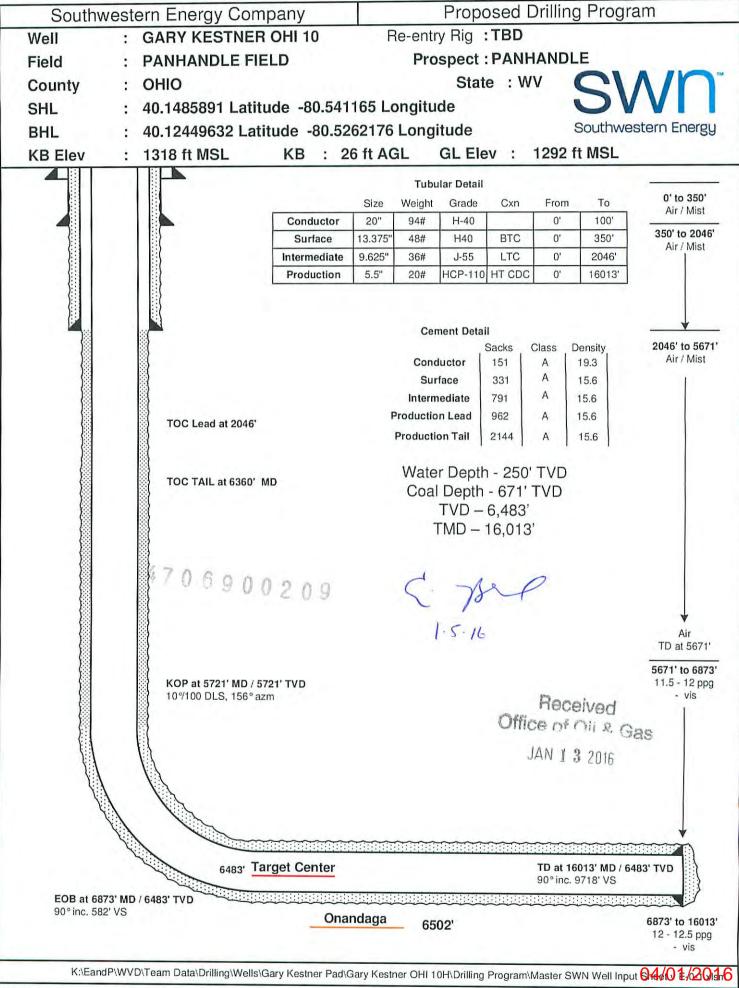
^{*}Note: Attach additional sheets as needed.



Schlumberger Cement Additives

| | Product Name | Product Use | Chemical Name | CAS Number |
|------------------|--------------|---------------|----------------------------------|-------------|
| | Product Name | Product Use | Chemical Name | CAS Number |
| Surface | S001 | accelerator | calcium chloride | 10043-52-4 |
| Intermediate | S001 | accelerator | calcium chloride | 10043-52-4 |
| | D080 | dispersant | sodium polynaphthalene sulfonate | 9008-63-3 |
|) j | 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 |
| gg | D046 | antifoam | fullers earth (attapulgite) | 8031-18-3 |
| Production-Lead | | | chrystalline silica | 14808-60-7 |
| i j . | D201 | retarder | metal oxide | propriatary |
| эnр | | | sulphonated synthetic polymer | propriatary |
| Pro | 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 |
| - | | | sodium polynaphthalene sulfonate | 9008-63-3 |
| -T | D065 | dispersant | sodium sulfate | 7757-82-6 |
| Production-Tail | | | chrystalline silica | 14808-60-7 |
| йp | D201 | retarder | metal oxide | propriatary |
| Prc | D153 | anti-settling | chrystalline silica | 14808-60-7 |





| API Number 47 - | 69 | - |
|-----------------|----------|----------------------|
| Operator's | Well No. | Gary Kestner OHI 10H |

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

| Operator Name SWN Production Co. | , LLC | OP Code 494512924 | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
| Watershed (HUC 10)_ Castleman F | Run Q | Quadrangle 247- Bethany | |
| Elevation 1292 | County 69- Ohio | District 3- Liberty | |
| Do you anticipate using more than Will a pit be used? Yes | | | _ |
| If so, please describe antic | npated pit waste. | m in place at this time- cuttings will be taken to a permitted la | andfill. |
| Will a synthetic liner be us | sed in the pit? Yes No _ | If so, what ml.? | |
| Proposed Disposal Method | d For Treated Pit Wastes: | | |
| Undergr | | ber 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317 API# will be included with the WR-34/DDMR &/or permit addendum. | |
| Other (I | Explain flow back fluids will be put in s | steel tanks and reused or taken to a permitted disposal fa | acility. |
| Will closed loop system be used? I | f so, describe: Yes | | |
| Drilling medium anticipated for thi | s well (vertical and horizontal)? Ai | ir, freshwater, oil based, etc. Air dral to KOP, full drill with SOBM from H | KOP to TD |
| | Synthetic, petroleum, etc.Synthetic Oil | Base 4706000 | |
| Additives to be used in drilling med | dium? see attached sheets | 00209 | |
| Drill cuttings disposal method? Le | ave in pit, landfill, removed offsite, | , etc. landfill | |
| -If left in pit and plan to so | olidify what medium will be used? | (cement, lime, sawdust) | |
| Arden Landfill 10072, Ame | rican U2-12954, Country vv | 4902. Northwestern SWF- 1025. Short Creek 1034WV0109517/CID28726, Carbon Limestone 28726/C VIGE 3839U/CID3839U, PINE Grove 136 | ชชด |
| on August 1, 2005, by the Office of provisions of the permit are enforce law or regulation can lead to enforce I certify under penalty of application form and all attachme obtaining the information, I believe | f Oil and Gas of the West Virginia E reable by law. Violations of any te rement action. The control is a second control in the control in th | Department of Environmental Protection. I underse the condition of the general permit and/or other ined and am familiar with the information subming inquiry of those individuals immediately resecurate, and complete. I am aware protection of the condition of the general permit and/or other inquiry of those individuals immediately resecurate, and complete. I am aware protection of the condition of the general permit and/or other inquiry of those individuals immediately resecurate, and complete. I am aware protection of the general permit and/or other individuals immediately resecurate, and complete. | stand that the er applicable itted on this ponsible for significant |
| Company Official Signature | | JAN 1 3 20 | 16 |
| Company Official (Typed Name) | | JAN 1 0 20 | |
| Company Official Title Regulatory | / Supervisor | | |
| Subscribed and sworn before me the | | OFFICIAL 20. Notary Public, State BRITTANY R 3302 Old Elki Buckhannon, My commission expires I | of West Virginia R WOODY ins Road WV 26201 |

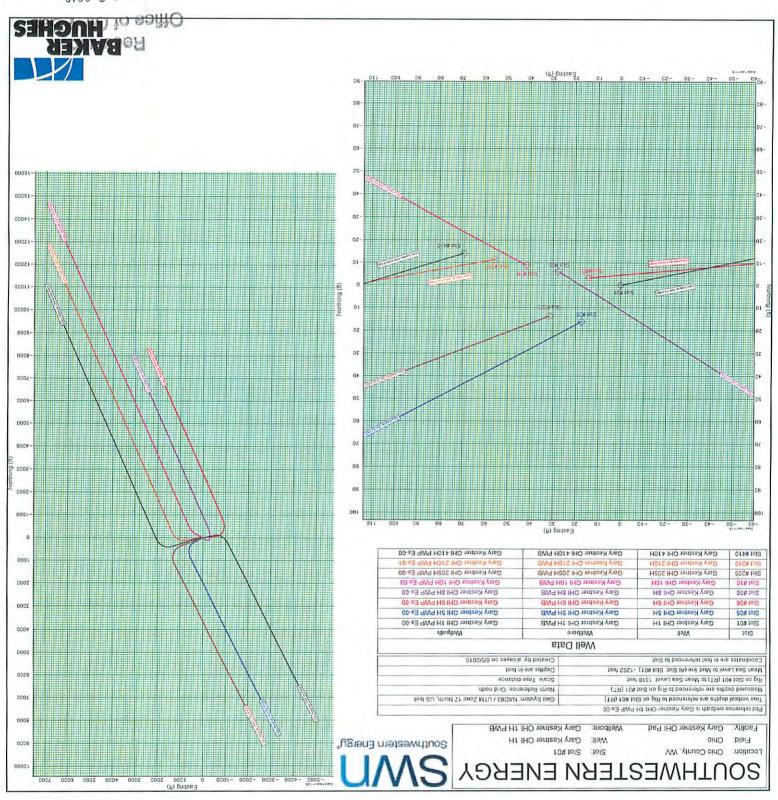
| Donner d Dayson station Tuester | wants Aanas Disturbad | Prevegetation pl | ·[|
|--------------------------------------------------------------------------------------------------------------|----------------------------|-----------------------------------------------|---------------------------------------|
| Proposed Revegetation Treatm | min. 2 | | |
| Lime 10-20 | Tons/acre or to correct | ct to pH | |
| Fertilizer type | 20 | | |
| Fertilizer amount 60 | nw 2 5 | lbs/acre | |
| _{Mulch_} Hay/Stra | 1W 2.5 | _Tons/acre | |
| | | Seed Mixtures | |
| Ten | nporary | Perma | nent |
| Seed Type | lbs/acre | Seed Type | lbs/acre |
| White Grove | 15 | White Grove | 15 |
| Red Top | 15 | Red Top | 15 |
| Orchard Grass | 20 | Orchard Grass | 20 |
| Orawing(s) of road, location, provided) | | land application (unless engineered plans ind | cluding this info have been |
| Orawing(s) of road, location, provided) Thotocopied section of involve | ed 7.5' topographic sheet. | 5.16 | |
| Orawing(s) of road, location, provided) Photocopied section of involved | ed 7.5' topographic sheet. | 5.16 | |
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| Orawing(s) of road, location, provided) Photocopied section of involved | ed 7.5' topographic sheet. | 5.16 | 00209 Received |
| Attach: Drawing(s) of road, location, porovided) Photocopied section of involved Plan Approved by: Comments: | ed 7.5' topographic sheet. | 5.16 | 00209 Received |
| Orawing(s) of road, location, provided) Photocopied section of involved | ed 7.5' topographic sheet. | 5.16 | 0 0 2 0 9 Received Office of Oil # G |

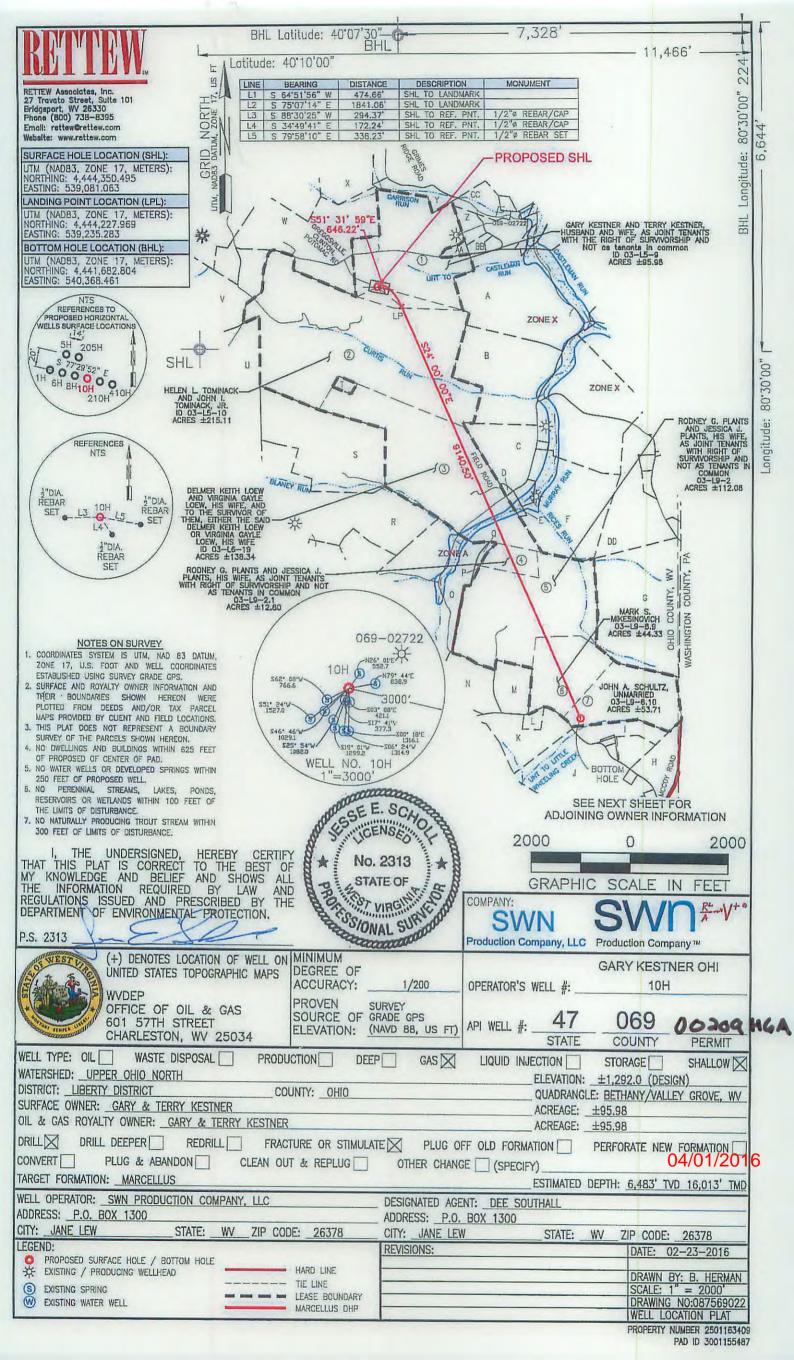
Marcellus Well Drilling Procedures And Site Safety Plan

SWN Production Co., LLC

47 - 69 Well name: Gary Kestner OHI 10H
Bethany/Valley Grove, Quad
Liberty, District
Ohio County, West Virginia

| Submitted by: Danielle Southall | Bate: | 1/4/2016 | | | .) | | | | | | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|----------------|----|---|----|---|---|---|---|---|----|
| Title Regulatory Supervisor | SWN Proc | luction Co., L | LC | | | | | | | | |
| Approved by: Title: On or local Inspector | Date: | 1.5.16 | | | | | | | | | |
| Approved by: | | | | | | | | | | | |
| | Date: | | | | | | | | | | |
| Title: | | | 47 | 0 | 6 | 0 | 0 | 0 | 0 | | 70 |
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| SWN Production Co., LLC – Confidential | | | | | | | | | | | |





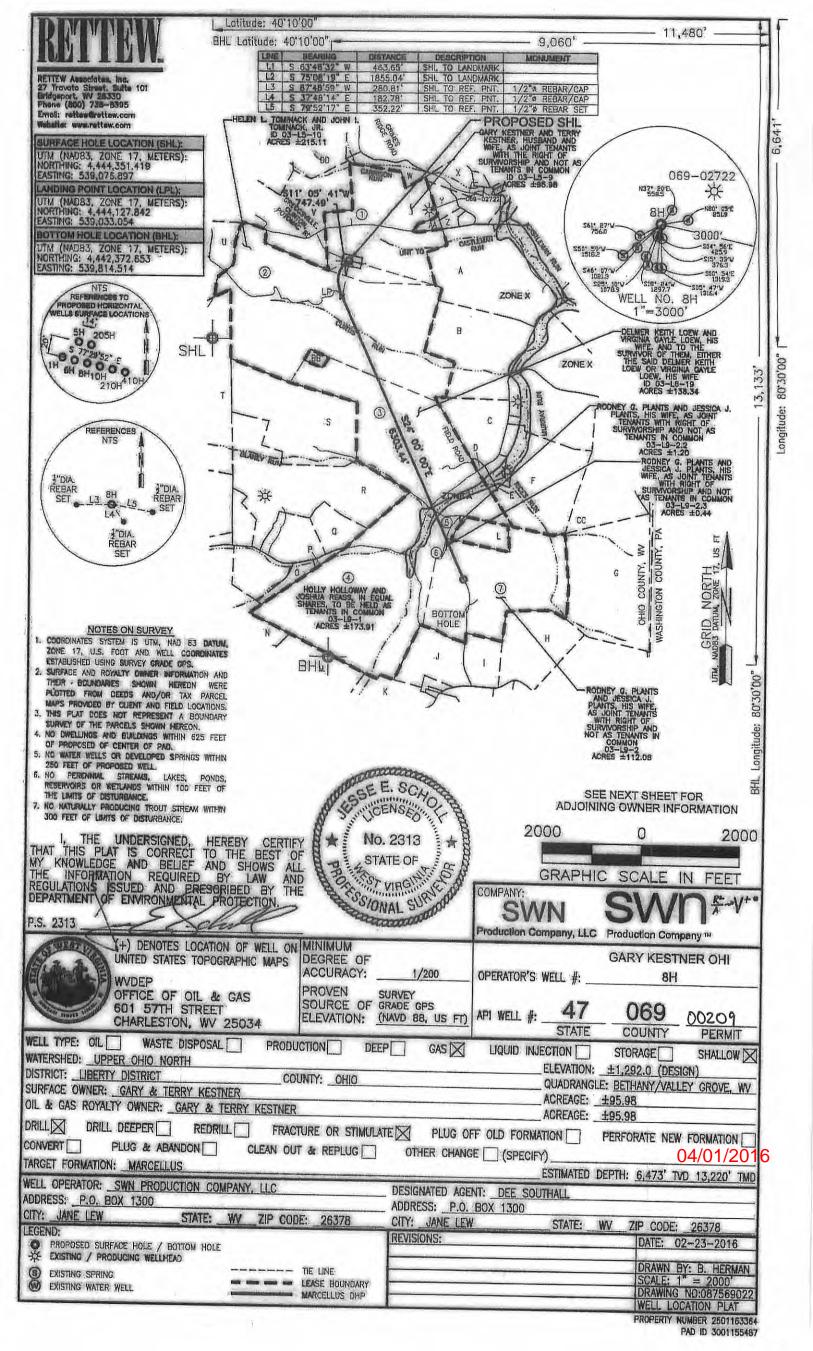


RETTEW Associates, Inc. 27 Travato Street, Suite 101 Bridgeport, WV 26330 Phone (800) 73B-8395 Email: rettew@rettew.com Website: www.rettew.com

ADJOINING OWNERS

| RACT | SURFACE OWNERS | TAX PARCEL | ACRES |
|---------|-----------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------|
| A | GREGORY N. MORMANIS AND SHARON LEE MORMANIS, HIS WIFE AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L6-13 | 104,29± |
| В | WILLIAM J. RODGERS | 03-L6-15 | 68.35± |
| C | JEFFREY J. EISENHAUER AND JOLENE M. EISENHAUER, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L6-18 | 29.21± |
| D | DELMER K. LOEW AND VIRGINIA G. LOEW, HIS WIFE, AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L6-18-1 | 0.72± |
| E | DONNA MUSILLI, SINGLE | 03-L6-18-3 | 2.15± |
| F | DELMAR K. LOEW AND VIRGINIA G. LOEW, HIS WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP, AND NOT AS TENANTS IN COMMON | 03-L6-18-2 | 77.07± |
| G | DAVID J. HALL AND CYNTHIA J. HALL, MARRIED AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L9-3 | 92,18± |
| Н | LEWIS E. NICHOLSON AND SUSAN L. NICHOLSON, HUSBAND AND WIFE AS JOINT TEMANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TEMANTS IN COMMON | 03-L9-17 | 20.38± |
| 1 | ROBERT L. COOK AND FLORENCE A. COOK, HIS WIFE AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L9-6 | 13.28± |
| J | THELMA A. MILLER, WIDOW, LIFE ESTATE, AND CARL E. MILLER, JR., REMAINDERMAN | 03-L9-15-4 | 61,16± |
| K | DANIEL LEE HENRY AND DIANE L. HENRY, HIS WIFE, AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L9-6-5 | 30.28± |
| L | JO ANN HENRY, WIDOW | 03-L9-6-7 | 2.99± |
| М | DAVID E. MCNABB AND BRENDA L. MCNABB, TENANTS IN COMMON | 03-L9-6-8 | 15.66± |
| N | MICHAEL H. FISHER AND SUSAN K. FISHER AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L9-6-6 | 29.07± |
| 0 | HOLLY HOLLOWAY AND JOSHUA REASS, IN EQUAL SHARES, TO BE HELD AS TENANTS IN COMMON | 03-L9-1 | 173.91± |
| P | RODNEY G. PLANTS AND JESSICA J. PLANTS. HIS WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L9-2-3 | 0.44± |
| Q | RODNEY G. PLANTS AND JESSICA J. PLANTS, HIS WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L9-2-2 | 1.20± |
| R | GLENN A. DILLE | 03-LB-9-7 | 105.59± |
| S | LYNN MCELVANEY, WIDOW | 03-L5-26 | 91.89± |
| T | TUNNEL RIDGE, LLC, A DELAWARE LIMITED LIABILITY COMPANY | 03-L6-22 | 2.00± |
| U | GEORGE FLACCUS SMITH | 03-L5-27 | 13B.00± |
| ٧ | DONALD F, DOLENCE AND JOAN L. DOLENCE, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L5-11 | 99.22± |
| W | JOSEPH E. ENNIS AND MARJORIE G. ENNIS, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L5-8 | 88.00± |
| X | ROBERT H. FISH AND PATSY C. CARROLL FISH, HIS WIFE, LIFE ESTATE, AND HARRY ALAN FISH, REMAINDERMAN | 03-L2-13 | 78.54 |
| Y | GREGORY D. ATKINSON, ANDREA L. FULLENKAMP, JENNIFER K. TUCKER, AND TIMOTHY S. ATKINSON AS TENANTS IN COMMON | 03-L6-10-1 | 6.71± |
| Z AA | LURA MARIE GEAR (FKA LURA MARIE HICKS) RICHARD CALVIN COWAN, SR., AND CHERYL ANN WILLIAMS, SINGLE | 03-L6-9-1 03-L6-21 | 5.85± 2.22± |
| BB | RONALD LERGY CONNER | 03-16-11 | 0.444 |
| CC | GREGORY D. ATKINSON, ANDREA L. FULLENKAMP, JENNIFER K. TUCKER, AND TIMOTHY S. ATKINSON AS TENANTS IN COMMON | 03-L6-11 03-L6-10,2 | 0.41± 11.72± |
| DD | MICHAEL WILHELM AND JULIA E. WILHELM, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L6-20 | 55.13± |

| REVISIONS: | COMPANY: | SWN Production Company, LLC | 04/01/201 SW\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\ |
|------------|--------------------|----------------------------------------------|--------------------------------------------------|
| | OPERATOR'S WELL #: | GARY KESTNER OHI 10H | DATE: 02-23-2016 DRAWN BY: B. HERMAN |
| | LOCATION: | LIBERTY DISTRICT, OHIO COUNTY, WEST VIRGI | SCALE: N/A DRAWING NO:087569022 |



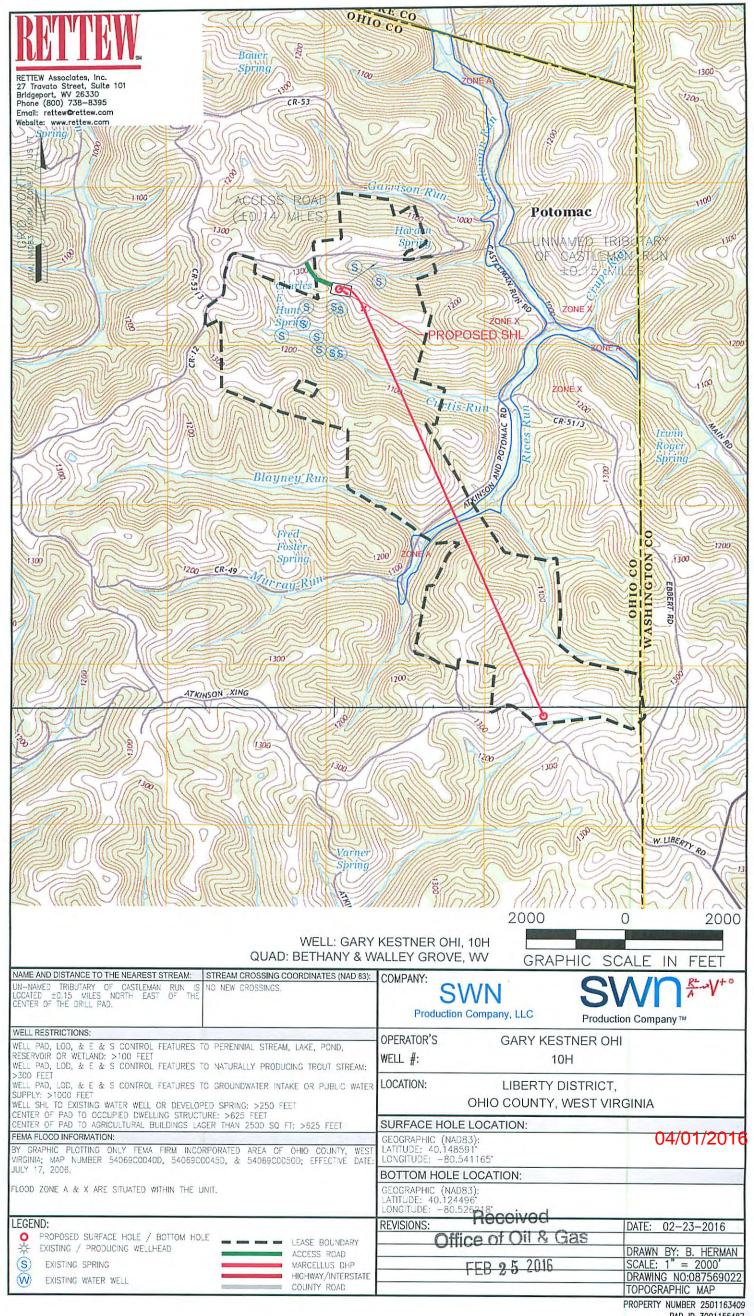


RETIEW Associates, Inc. 27 Travato Street, Suite 101 Bridgeport, WV 26330 Phone (800) 738-8395 Email: rettew@rettew.com Website: www.rettew.com

ADJOINING OWNERS

| RACT | | TAX PARCEL | ACRES |
|------|-------------------------------------------------------------------------------------------------------------------------------------------|------------|------------------|
| A | GREGORY N. MORMANIS AND SHARON LEE MORMANIS, HIS WIFE AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L6-13 | 104.29± |
| В | WILLIAM I. RODGERS | 03-L6-15 | 68.35± |
| С | JEFFREY J. EISENHAUER AND JOLENE M. EISENHAUER, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L6-18 | 29.21± |
| D | DELMER K. LOEW AND VIRGINIA G. LOEW, HIS WIFE, AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L6-18-1 | 0.72± |
| E | DONNA MUSILLI, SINGLE | 03-L6-18-3 | 2.15± |
| F | DELMAR K. LOEW AND VIRGINIA G. LOEW, HIS WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP, AND NOT AS TENANTS IN COMMON | 03-L6-18-2 | 77.07± |
| G | DAVID J. HALL AND CYNTHIA J. HALL, MARRIED AS JOINT TENANTS WITH RIGHTS OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L9-3 | 92.18± |
| H | MARK S. MIKESINOVICH | 03-L9-6-9 | 11 374 |
| 1 | DAVID E. MCNABB AND BRENDA L. MCNABB, TENANTS IN COMMON | 03-L9-6-8 | 44.33± 15.66± |
| J | MICHAEL H. FISHER AND SUSAN K. FISHER AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L9-6-6 | 29.07± |
| K | LARRY G. BALL, SINGLE | 03-L8-42 | 51.77± |
| L | RODNEY G. PLANTS AND JESSICA J. PLANTS, HIS WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L9-2-1 | 12.80± |
| М | JODY LEE SHILLING, SINGLE | 03-L8-10 | 40.10± |
| N | ROBERT C. JONES, SON OF ROBERT E. JONES | 03-L8-11 | 168.61± |
| 0 | GEORGE E. PORTER, III, AND MARGARET ANN PORTER, HUSBAND AND WIFE | 03-L8-9-5 | 7.50± |
| Р | MARGARET ANN PORTER AND GEORGE E. PORTER, III, HER HUSBAND, OR THE SURVIVOR | 03-L8-9-2 | 2.26± |
| Q | JARRETT K. REEDY AND LESLIE K. REEDY, HIS WIFE | 03-L8-9-4 | 14.65± |
| R | GLENN A. DILLE | 03-L8-9-7 | 105.59± |
| S | LYNN MCELVANY, WIDOW | 03-L5-26 | 91.89± |
| T | GEORGE FLACCUS SMITH | 03-L5-27 | 138.00± |
| U | DONALD F. DOLENCE AND JOAN L. DOLENCE, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L5-11 | 99.22± |
| | JOSEPH E. ENNIS AND MARJORIE G. ENNIS, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L5-8 | 88.00± |
| W | GREGORY D. ATKINSON, ANDREA L. FULLENKAMP, JENNIFER K. TUCKER, AND TIMOTHY S. ATKINSON AS TENANTS IN COMMON | 03-L6-10-1 | 6.71± |
| X | GREGORY D. ATKINSON, ANDREA L. FULLENKAMP, JENNIFER K. TUCKER, AND TIMOTHY S. ATKINSON AS TENANTS IN COMMON | 03-L6-10-2 | 11.72± |
| Y | LURA MARIE GEAR (FKA LURA MARIE HICKS) | 03-L6-9-1 | 5.051 |
| Z | RONALD LEROY CONNER | 03-L6-9-1 | 5.85± |
| AA | RICHARD CALVIN COWAN, SR. AND CHERYL ANN WILLIAMS, SINGLE | 03-L6-21 | 0.41± 2.22± |
| | TUNNEL RIDGE, LLC, A DELAWARE LIMITED LIABILITY COMPANY | 03-L6-22 | 2.00± |
| | MICHAEL WILHELM AND JULIA E. WILHELM, HUSBAND AND WIFE AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP AND NOT AS TENANTS IN COMMON | 03-L6-20 | 55.13± |
| DD I | ROBERT H. FISH AND PATSY C. CARROLL FISH, HIS WIFE, LIFE ESTATE, AND HARRY ALAN FISH, REMAINDERMAN | 03-L2-13 | 78.54± |

| | | | 04/01/20 |
|------------|--------------------|---------------------------------------------|---------------------------------------|
| REVISIONS: | COMPANY: | SWN Production Company, LLC | SWN 5-V+° |
| | OPERATOR'S WELL #: | GARY KESTNER OHI 8H | DATE: 02-23-2016 DRAWN BY: B. HERMAN |
| 7. | LOCATION: | LIBERTY DISTRICT, OHIO COUNTY, WEST VIRG | SCALE: N/A |



PAD ID 3001155487

WW-6A1 (5/13)

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 "A"

4706900200

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: Received

- 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

JAN 1 3 2016

Office of Oil & Gas

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:

Courtney A. Graviett, Landman Its:

Page 1 of 1

Gary Kestner 10H

| | | _ | | | | |
|----|---------------|----|-----------------------------------------------------------------------------|-------------------------------------|---------|---------------|
| # | SWN ID | | LESSOR | LESSEE | ROYALTY | BK/PG |
| 1) | 729489-001 | 1- | Gary A. Kestner and Terry L. Kestner, husband and wife | Chesapeake Appalachia, LLC | 18.00% | 814/427 |
| | 313947-000 | | | Statoil USA Onshore Properties Inc. | | 825/133 |
| | | | | SWN Production Company, LLC | | 884/1 |
| 2) | 730044-001 | 1- | Helen L. Tominack, widow, John I. Tomainack Jr. and | Great Lakes Energy Partners, LLC | 15.50% | 778/505 |
| | 324178-000 | | Dena L. Tominack, his wife | Great Lakes Energy Partners, LLC | | 849/496 |
| | | | | Chesapeake Appalachia, LLC | | 808/556 |
| | | | | Statoil USA Onshore Properties Inc. | | 808/556 |
| | | | | Statoil USA Onshore Properties Inc. | | 822/708 |
| | | | | SWN Production Company, LLC | | 883/515 |
| 3) | | | Delmer K. Loew a/k/a Delmer Keith Loew a/k/a Delmer | TH Exploration, LLC | 18.00% | 896/76 |
| | | | K. Loew and Virginia G. Loew a/k/a Virginia Gayle Loew, husband and wife | | | See attached. |
| | | | | | | |
| 4) | 729501-001 | 1- | Rodney G. Plants and Jessica J. Plants, husband and wife | Chesapeake Appalachia, LLC | 19.25% | 818/328 |
| | 313960-000 | | | Statoil USA Onshore Properties Inc. | | 824/767 |
| | | | | SWN Production Company, LLC | | 891/735 |
| 5) | 729501-001 | 1- | Rodney G. Plants and Jessica J. Plants, husband and wife | Chesapeake Appalachia, LLC | 19.25% | 818/328 |
| | 313960-000 | | | Statoil USA Onshore Properties Inc. | | 824/767 |
| | | | | SWN Production Company, LLC | | 891/735 |
| 6) | 736464-001 | | Mark S. Mikesinovich, a single man | Chesapeake Appalachia, LLC | 18% | 831/538 |
| | 47-001101-000 | | | SWN Production Company, LLC | | 885/680 |
| 7) | PENDING | | John A. Schultz, a single man | SWN Production Company, LLC | 18.00% | 900/418 |

MEMORANDUM OF AGREEMENT

This Memorandum of Agreement is entered into this 13thth day of October, 2015, between SWN Production Company, LLC (SWN), a Texas limited liability company, whose address is 10000 Energy Drive Spring, TX 77389 and TH Exploration, LLC (THE), a Texas limited liability company, whose address is 1320 S. University Drive, Suite 500, Fort Worth, TX 76107.

<u>PARTIES AND AGREEMENT REFERENCE</u>: SWN and THE entered into a letter agreement ("Letter Agreement") dated October 13, 2015 (the "Commencement Date") outlining their intent to pursue definitive agreements allowing SWN to develop those certain oil and gas interests controlled by THE in the Liberty District of Ohio County, West Virginia, dated November 6, 2014, and of record in Book 896, Page 76, in the Office of the Clerk of the County Commission of the aforesaid County and State.

Parcel Numbers: 3-L6-18.1, 3-L6-18.2, 3L6-19

- 1. <u>TERM</u>: The rights granted in the Letter Agreement will terminate upon the earlier of (i) one hundred eighty (180) days from the Commencement Date, or (ii) the parties entering into the definitive agreement(s) described in the Letter Agreement.
- 2. <u>MEMORANDUM FOR RECORDING PURPOSES ONLY</u>: This Memorandum is for recording purposes only and does not supplement or supercede the parties' respective rights set forth in the Letter Agreement.

IN WITNESS WHEREOF, the parties have signed their names hereto as of the date first above written.

SWN PRODUCTION COMPANY, LLC.

TH Exploration, LLC

By: Stephen M. Guidry

, Ву

Its: Vice President-Land

By: Dauglas L. DeMartino. Its: Land Manager - Appalachia

| STATE OF Texas ; |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| COUNTY OF Harris : |
| Before me, Danie Townsend, a Notary Public, on this date personally appeared Stephen M. Graining, known to me to be the Nice President Law of SWN Production Company, L.C., subscriber to the foregoing instrument, and acknowledged to me that he/she executed the instrument for the purposes and consideration therein expressed as his/her free act and deed. Given under my hand and seal of office this 13 day of October. Aug. My Commission expires: May 29, 2015 |
| [SEAL] DANIEL TOWNSEND Notary Public, State of Texas My Commission Expires May 29, 2019 Notary Public Notary Public |
| STATE OF <u>PENNSYCUANIA</u> ; COUNTY OF <u>C) ASHING TON</u> : |
| Before me, David G. Delaco, a Notary Public, on this day personally appeared Douglas L. Dellactino, known to me to be the Land Manager. American of TH Exploration, LLC, subscribed to the foregoing instrument, and acknowledged to me that he/she executed the instrument for the purposes and consideration therein expressed as his/her free act and deed. Given under my hand and seal of office this 10 day of December , 2015. My Commission expires: Fe3. 16, 2016 |
| [SEAL] COMMONWEALTH OF PENNSYLVANIA NOTARIAL SEAL David Gabriel DeLailo, Notary Public Cecil Township, Washington County My Commission Expires February 16, 2016 Notary Public |

| | SURFACE OWNER | STATUS |
|-----------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| A | Gregory N. Mormanis and Sharon Lee Mormanis, his wife as joint | Leased |
| ^ | tenants with rights of survivorship and not as tenants in common | |
| | | |
| R | William I. Rodgers | Leased |
| -č - | Jeffery J. Eisenhauer and Jolene M. Eisenhauer, as Joint Tenants | Leased |
| • | with Right of Survivorship and not as tenants in common | |
| | The state of the s | |
| <u> </u> | Delmer K. Loew and Virginia G. Loew, his wife, as joint tenants with | Leased |
| • | rights of survivorship and not as tenants in common | 2020 |
| | ingities of suffered strip one for as contains in commen | |
| E | Donna Musilli, single | Leased |
| ÷ | Delmar K. Loew and Virginia G. Loew, his wife, as joint tenants with | Leased |
| • | right of survivorship, and not as tenants in common | |
| | Tight or sale to samp, and the as terminal in action | |
| G | David J. Hall and Cynthia J. Hall, married as joint tenants with rights | Leased |
| J | of survivorship and not as tenants in common | Lease |
| н | Lewis E. Nicholson and Susan L. Nicholson, husband and wife as | Leased |
| н | | reased |
| | joint tenants with right of survivorship and not as tenants in | |
| | common | 0 / 1 p tel 1 1 10 - 11 |
| 1 | Robert L. Cook and Florence A. Cook, his wife as joint tenants with | Open of record. RedSky is handling as he was waiting |
| _ | right of survivorship and not as tenants in common | on John Schultz to sign |
| 1 | Thelma A. Miller, widow, Life Estate, and Carl E. Miller, Jr., | Leased |
| | Remainderman | |
| K | Daniel Lee Henry and Diane L. Henry, his wife, as joint tenants with | Leased |
| | rights of survivorship and not as tenants in common | |
| ㅗ | Jo Ann Henry, widow | Leased |
| М | David E. McNabb and Brenda L. McNabb, tenants in common | Leased |
| N | Michael H. Fisher and Susan K. Fisheras joint tenants with right of | Leased |
| | survivorship and not as tenants in common | |
| 0 | Holly Holloway and Joshua Reass, in equal shares, to be held as | Leased |
| | tenants in common | |
| P | Rodney G. Plants and Jessica J. Plants, his wife, as joint tenants with | Leased |
| | right of survivorship and not as tenants in common | |
| | | |
| Q | Rodney G. Plants and Jessica J. Plants, his wife, as joint tenants with | Leased |
| | right of survivorship and not as tenants in common | |
| | | |
| R | Glenn A. Dille | Leased |
| 5 | Lynn McElvaney, widow | Leased |
| T | Tunnel Ridge, LLC, a Delaware limited liability company | Leased |
| U | George Flaccus Smith | Leased |
| ٧ | Donald F. Dolence and Joan L. Dolence, husband and wife as joint | Leased |
| | tenants with right of survivorship and not as tenants in common | |
| | | |
| w | Joseph E. Ennis and Marjorie G. Ennis, husband and wife as joint | Leased |
| | tenants with right of survivorship and not as tenants in common | |
| | | |
| х | Robert H. Fish and Patsy C. Carroll Fish, his wife, Life Estate, and | Leased |
| | Harry Alan Fisth, Remainderman | |
| Υ | Gregory D. Atkinson, Andrea L. Fullenkamp, Jennifer K. Tucker, and | Leased |
| | Timothy 5. Atkinson as tenants in common | |
| Z | Lura Marie Gear (fka Lura Marie Hicks) | Leased 1/2 interest. Unable to located husband to sig |
| | | his 1/2 interest |
| AA | Richard Calvin Cowan, Sr., and Cheryl Ann Williams, single | Leased |
| BB | Ronald Leroy Conner | Lensed |
| | Gregory D. Atkinson, Andrea L. Fullenkamp, Jennifer K. Tucker, and | CORO |
| CC | | |
| cc | | leased |
| CC | Timothy 5. Atkinson as tenants in common Michael Wilhelm and Julia E. Wilhelm, husband and wife as joint | Leased Leased |

3000209

| API NO. | |
|-------------------|------------------|
| OPERATOR WELL NO. | Gary Kestner OHI |
| | 10H |
| Well Pad Name: | Gary Kestner |

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS VOLUNTARY STATEMENT OF NO OBJECTION

Instructions to Persons Named on Page WW-6A

The well operator named on page WW-6A is applying for a permit from the State of West Virginia to conduct oil or gas well work. Well work permits are valid for twenty-four (24) months. Please contact the listed well operator and the Office of Oil and Gas if you do not own any interest in the listed surface tract.

Comment and Waiver Provisions

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.

Pursuant to West Virginia Code § 22-6A-8(b) No permit may be issued less than thirty days after the filing date of the application for any well work except plugging or replugging; and no permit for plugging or replugging may be issued less than five days after the filing date of the application except a permit for plugging or replugging a dry hole: *Provided*, That if the applicant certifies that all persons entitled to notice of the application under the provisions of subsection (b), section ten of this article have been served in person or by certified mail, return receipt requested, with a copy of the well work application, including the erosion and sediment control plan, if required, and the well plat, and further files written statements of no objection by all such persons, the secretary may issue the well work permit at any time.

VOLUNTARY STATEMENT OF NO OBJECTION

listed above, and that I have received copies of a Notice of Application, an Application for a Well Work Permit on Form WW-6A and attachments

, hereby state that I have read the Instructions to Persons Named on Page WW-6A and the associated provisions

| well work on the tract of land as follows: State: West Virginia | , including the erosion and sediment con | Easting: | 1,708,883,247 |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| County: Ohio | WVSPN NAD 27 | Northing: | 602,131.559 |
| District: | Public Road Access | s: | |
| Quadrangle: BEVERLY WES Watershed: | ST Generally used farm | n name: | |
| I further state that I have no objection to the pissued on those materials, provided that Sou coordinates of North 602,131.559, East 1,70 waived its rights to mine all the coal or acc the well by Windsor Coal Company mining a Company's Common Law Property Rights | athwestern Energy Production Co 08,883.247. This statement does n ept any responsibility for any dar activity. This Voluntary Statemen | mpany, LLC dri of serve as notice nage to the well o | lls the well on WV North NAD27 that Windsor Coal Company has or surface facilities associated with |
| *Please check the box that applies SURFACE OWNER | | | NATURAL PERSON |
| SURFACE OWNER (Road and/or Ot | ther Disturbance) Print N | lame: | |
| SURFACE OWNER (Impoundments/I | Pits) | | CORPORATION, ETC. |
| ☑COAL OWNER OR LESSEE | Comp | | Windsor Coal Company Casey V. Saunders |
| ⊠COAL OPERATOR | | Its: | Senior Project Engineer |
| □WATER PURVEYOR | Signat D | ure: WDV | 1/ Sannella 3/25/2016 |
| DOPERATOR OF ANY NATURAL GA | AS STORAGE FIELD | | |

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.



PO Box 1300
Jane Lew, WV 26378
PHONE: (832) 796-1610

4706900209

January 7, 2016

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

RE: SWN's proposed Gary Kestner OHI 10H & Gary Kestner OHI 8H in Ohio County, West Virginia, Drilling under Atkinson Potomac Hill Road.

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 Atkinson Potomac 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,

Courtney A. Graviett

Landman

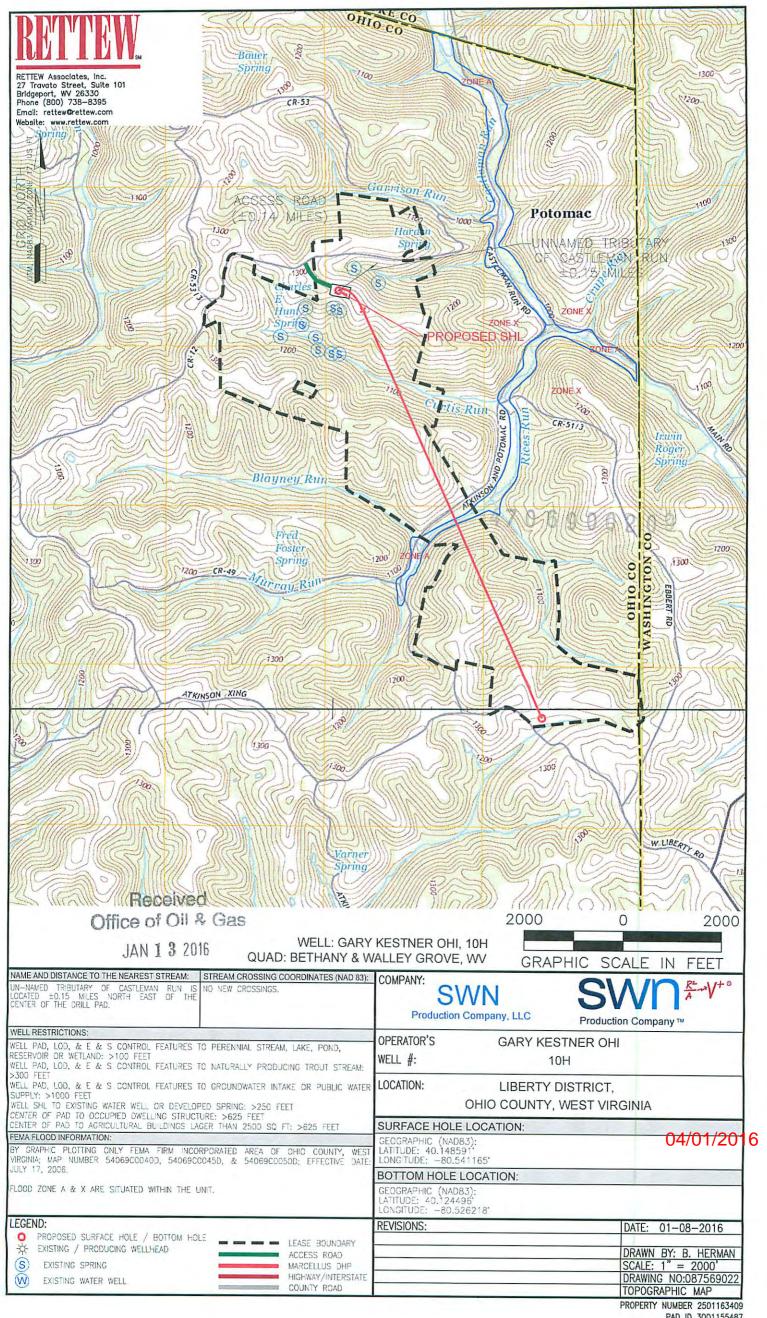
SWN Production Company, LLC

PO Box 1300

Jane Lew, WV 26378

Office of Oil & Gas

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



PAD ID 3001155487

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

| Date of Notic | ce Certification: | A | PI No. 47 | - 69 - | |
|------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------|---------------------|--------------------------------------------------------------|
| Date of Notice | ee certification. | | | Well No. Gary | Kestner OHI 10H |
| | , | | | lame: Gary Kes | |
| Pursuant to th | been given: ne provisions in West Virginia Code § tract of land as follows: | | | | And Judge San In Control of |
| State: | WV | F | Easting: | 539*081.063 | |
| County: | 69- Ohio | | Northing: | 4444350.495 | |
| District: | 3- Liberty | Public Road Acces | | Greggsville, Clinto | on & Potomac Road |
| Quadrangle: | 247- Bethany | Generally used farm | | | |
| Watershed: | Castleman Run | | | | |
| of giving the requirements Virginia Code | equired by subsections (b) and (c), se surface owner notice of entry to su of subsection (b), section sixteen o e § 22-6A-11(b), the applicant shall to have been completed by the applican | rvey pursuant to subsection (a) f this article were waived in wender proof of and certify to the |), section to riting by | en of this artic | ele six-a; or (iii) the notice oner; and Pursuant to West |
| that the Ope | West Virginia Code § 22-6A, the Op rator has properly served the require ECK ALL THAT APPLY | | s Notice C | ertification | OOG OFFICE USE ONLY |
| ☐ 1. NO | FICE OF SEISMIC ACTIVITY or | NOTICE NOT REQUIRE SEISMIC ACTIVITY WAS | | | RECEIVED/ NOT REQUIRED |
| ☐ 2. NO | TICE OF ENTRY FOR PLAT SURV | YEY or 🔳 NO PLAT SURVEY | Y WAS CO | ONDUCTED | ☐ RECEIVED |
| ■ 3. NO | TICE OF INTENT TO DRILL or | ☐ NOTICE NOT REQUIRE NOTICE OF ENTRY FOR PLU WAS CONDUCTED or | | | RECEIVED/ NOT REQUIRED |
| | | WRITTEN WAIVER BY (PLEASE ATTACH) | Y SURFAC | CE OWNER | |
| ■ 4. NO | ΓICE OF PLANNED OPERATION | | | | ☐ RECEIVED |
| ■ 5. PUE | BLIC NOTICE | | | | ☐ RECEIVED |
| ■ 6. NO | TICE OF APPLICATION | | | | ☐ RECEIVED |
| | | | | | |

Required Attachments:

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

Office of Oil A Gas

Certification of Notice is hereby given:

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

Well Operator: SWN Production Co., LLC

By:

Dee Southall

Its: Telephone: Regulatory Supervisor 832-796-1614

Address:

P.O. Box 12359

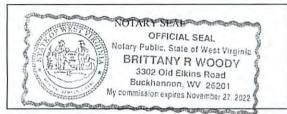
Spring, TX 77391-4954

Facsimile:

304-471-2497

Email:

Dee Southall@swn.com



Subscribed and sworn before me this 410 day of 1

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.

4706900209

WW-6A (9-13) API NO. 47- 69 OPERATOR WELL NO. Gary Kestner OHI 10H
Well Pad Name: Gary Kestner PAD

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

| Noti | ce Time Requirement: notice shall be provided no later | than the filing date of permit application. | |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | e of Notice: | 1/12/14 | |
| V | | PPROVAL FOR THE F AN IMPOUNDMENT OR PIT | |
| Deli | very method pursuant to West Virginia Code § 22-6A | -10(b) | |
| | PERSONAL ☑ REGISTERED ☐ ME | THOD OF DELIVERY THAT REQUIRES A | |
| _ | | CEIPT OR SIGNATURE CONFIRMATION | |
| regis sedin the stories oil are description of the stories of the | ficate of approval for the construction of an impoundment of tered mail or by any method of delivery that requires a receinent control plan required by section seven of this article, an urface of the tract on which the well is or is proposed to be lad gas leasehold being developed by the proposed well work ribed in the erosion and sediment control plan submitted purator or lessee, in the event the tract of land on which the well coal seams; (4) The owners of record of the surface tract or work, if the surface tract is to be used for the placement, con undment or pit as described in section nine of this article; (5 a water well, spring or water supply source located within o de water for consumption by humans or domestic animals; a used well work activity is to take place. (c)(1) If more than the extion (b) of this section hold interests in the lands, the applieds of the sheriff required to be maintained pursuant to section in the section of this article to the contrary, notice to a lien holder is a R. § 35-8-5.7.a requires, in part, that the operator shall also purveyor or surface owner subject to notice and water testing | pt or signature confirmation, copies of the application of the well plat to each of the following persons: (1) Tocated; (2) The owners of record of the surface tract is, if the surface tract is to be used for roads or other lassuant to subsection (c), section seven of this article; (I proposed to be drilled is located [sic] is known to be tracts overlying the oil and gas leasehold being development, enlargement, alteration, repair, removal or (2) Any surface owner or water purveyor who is known to thousand five hundred feet of the center of the wellow (6) The operator of any natural gas storage field where tenants in common or other co-owners of interest cant may serve the documents required upon the person eight, article one, chapter eleven-a of this code. (2) not notice to a landowner, unless the lien holder is the provide the Well Site Safety Plan ("WSSP") to the server. | the erosion and the owners of record of or tracts overlying the and disturbance as the coal owner, a underlain by one or loped by the proposed abandonment of any a to the applicant to applicant to the applicant to the described in on described in the Notwithstanding any clandowner. W. Va. |
| ☑ A | pplication Notice | ce Well Plat Notice is hereby provided to: | |
| | RFACE OWNER(s) | ☐ COAL OWNER OR LESSEE | |
| | e: Gary & Terry Kestner | Name: Windsor Coal Company | () |
| | ess: 1787 Rock Woods Road Grove, WV 26060 | Address: 1000 Consol Energy Drive | - |
| Name | | Charleston, WV 25304 | |
| | | COAL OPERATOR | |
| Addi | ess: | Name:Address: | - |
| ПSU | RFACE OWNER(s) (Road and/or Other Disturbance) | rudicas. | |
| | e: | ☑ SURFACE OWNER OF WATER WELL | |
| Addr | ess: | AND/OR WATER PURVEYOR(s) | |
| | 7777 | Name: *** See Attachment #1 | |
| Name | e: | Address: | 0 |
| Addr | ess: | | |
| | | ☐ OPERATOR OF ANY NATURAL GAS ST | ORAGE FIELD |
| | RFACE OWNER(s) (Impoundments or Pits) | Name: | 1 |
| Name | 2: | Name:Address: | Received |
| Addr | ess: | *Please attach additional forms if necessary | |
| | | | |
| | | | JAN 1 3 2016 |

Attachment #1

LANDOWNER

John Tominack x8 Gary Kestner x1

SOURCE

Address

Spring Spring

1188 Rock Woods Road Valley Grove WV 26060 / 1787 Rock Woods Road Valley Grove WV 26060

4706900209

API NO. 47-69

OPERATOR WELL NO. Gary Kestner OHI 10H
Well Pad Name: Gary Kestner PAD

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 ferenced 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. 47-69

OPERATOR WELL NO. Gary Kestner OHI 10H

Well Pad Name: Gary Kestner 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

Received Office of Oil & Gas

JAN 1 3 2016 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 10H

Well Pad Name: Gary Kestner 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.

Received Office of Oil & Gas

JAN 1 3 2016

API NO. 47-69 OPERATOR WELL NO. Gary Kestner OHI 10H Well Pad Name: Gary Kestner PAD

Notice is hereby given by:

Well Operator: SWN Production Co., LLC

Telephone: 304-884-1613

Email: Dee_Southall@swn.com

Address: P.O. Box 1300

Jane Lew, WV 26378

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 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

Subscribed and sworn before me this

May of January 2014

My Commission Expires_

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 Notic | Requirement: Notice shall be provided a | | permit application. | |
|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| Delivery met | hod pursuant to West Virginia Code § | 22-6A-16(b) | | |
| ☐ HAND | ■ CERTIFIED MAIL | | | |
| DELIVE | | COUESTED | | |
| | | | | |
| receipt request drilling a hor of this subsect subsection materials and if availab | sted or hand delivery, give the surface own izontal well: <i>Provided</i> , That notice given tion as of the date the notice was provided ay be waived in writing by the surface own le, facsimile number and electronic mail | when notice of its intent to enter upon to pursuant to subsection (a), section to the ded to the surface owner: <i>Provided</i> , however. The notice, if required, shall included address of the operator and the operator | , an operator shall, by certified mail return he surface owner's land for the purpose of en of this article satisfies the requirements wever, That the notice requirements of this lude the name, address, telephone number, or's authorized representative. | |
| Notice is ne Name: Gary and | reby provided to the SURFACE OV | WNER(s): Name: | | |
| Address: 1787 | | Address: | | |
| Valley Grove, W\ | | riddress. | | |
| State: County: District: Quadrangle: | West Virginia Ohio Liberty Bethany | UTM NAD 83 Easting: Northing: Public Road Access: Generally used farm name: | 539,081.054 4,444,350.180 Greggsville Clinton & Potomac Road | |
| Pursuant to V | | | ress, telephone number, and if available, ed representative. Additional information | |
| | | | of Environmental Protection headquarters, ep.wv.gov/oil-and-gas/pages/default.aspx. | |
| Notice is he | reby given by: | 0 6 | | |
| | r: SWN Production Company, LLC | Authorized Representative | : Danielle Southall | |
| Address: | PO Box 1300, 179 Innovation Drive | Address: | PO Box 1300, 179 Innovation Drive | |
| | Jane Lew, WV 26378 | | Jane Lew, WV 26378 | |
| Telephone: | 304-884-1615 | Telephone: | 304-884-1614 | |
| Email: Facsimile: | Steve_Perkins@swn.com | Email: Facsimile: | Danielle_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 Office of Oil & Gas

JAN 1 3 20104/01/2016 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 PLANNED OPERATION

| | | ermit Application Filed: |
|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Delivery n | nethod pursuant to West Virgini | Code § 22-6A-16(c) |
| ■ CER | TIFIED MAIL | ☐ HAND |
| RET | URN RECEIPT REQUESTED | DELIVERY |
| return rece the planne required to drilling of damages to (d) The no of notice. | ipt requested or hand delivery, giv d operation. The notice required be provided by subsection (b), sec a horizontal well; and (3) A prop the surface affected by oil and ga- tices required by this section shall | atter than the date for filing the permit application, an operator shall, by certified mail the surface owner whose land will be used for the drilling of a horizontal well notice of y this subsection shall include: (1) A copy of this code section; (2) The information on ten of this article to a surface owner whose land will be used in conjunction with the sed surface use and compensation agreement containing an offer of compensation for operations to the extent the damages are compensable under article six-b of this chapter. It is given to the surface owner at the address listed in the records of the sheriff at the time |
| | ereby provided to the SURFACI ress listed in the records of the she | |
| | and Terry Kestner | Name: |
| | 787 Rock Woods Rd | Address: |
| Valley Grove, | | 114415551 |
| operation State: | on the surface owner's land for the West Virginia | notice is hereby given that the undersigned well operator has developed a planned urpose of drilling a horizontal well on the tract of land as follows: UTM NAD 83 Easting: 539,081.054 |
| County: | Ohio | Northing: 4,444,350.180 |
| District: Quadrangle | Liberty | Public Road Access: Greggsville Clinton & Potomac Road Generally used farm name: |
| Watershed | | Generally used farm hame. |
| Pursuant to to be prov horizontal surface aff information headquarte gas/pages/o | ided by W. Va. Code § 22-6A-10 well; and (3) A proposed surface to ected by oil and gas operations to a related to horizontal drilling mars, located at 601 57th Street, SE default.aspx. | this notice shall include: (1)A copy of this code section; (2) The information required to to a surface owner whose land will be used in conjunction with the drilling of a surface and compensation agreement containing an offer of compensation for damages to the he extent the damages are compensable under article six-b of this chapter. Additional be obtained from the Secretary, at the WV Department of Environmental Protection Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number-10">www.dep.wv.gov/oil-and-damages-number |
| Well Opera | The state of the s | Address: PO Box 1300, 179 Innovation Drive |
| Telephone: | 304-884-1614 | Jane Lew, WV 26378 |
| Email: | Danielle_Southall@swn.com | Facsimile: 304-472-4225 |
| Oil and G | as 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.



WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

Division of Highways

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

Paul A. Mattox, Jr., P. E. Secretary of Transportation/ Commissioner of Highways

Earl Ray Tomblin Governor

July 1, 2015

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

4706900209

Subject: DOH Permit for the Gary Kestner Pad, Ohio County Gary Kestner OHI 10H

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

Dany K. Clayton

Central Office Oil &Gas Coordinator

Cc: Brittany Woody

Southwestern Energy

CH, OM, D-6

File

Received Office of Oil & Gas

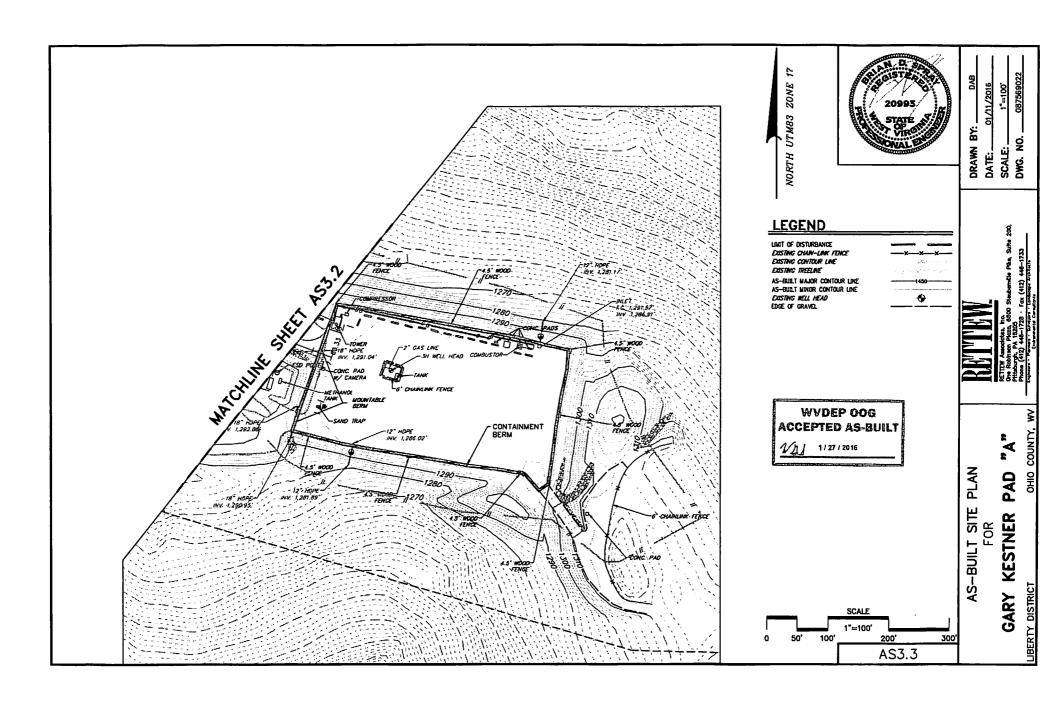
JAN 1 3 2016

| Supplier Name | Product Name | Product Use | Chemical Name | CAS Number |
|-----------------------|---------------------------------------|------------------|--------------------------------------------|-------------|
| | | | Didecyl Dimethyl Ammonium Chloride | 007173-51-1 |
| | | | Ethanol | 000064-17-5 |
| | ALPHA 1427 | Biocide | Glutaraldehyde (Pentanediol) | 000111-30-8 |
| | | | Quaternary Ammonium Compound | 068424-85-1 |
| | | | Water | 007732-18-5 |
| | BF-7L | Buffer | Potassium Carbonate | 000584-08-7 |
| | | | Choline Chloride | 000067-48-1 |
| | ClayCare | Clay Stabilizer | Water | 007732-18-5 |
| BAKER HUGHES | Enzyme G-I | Breaker | No Hazardous Components | NONE |
| | ENZYME G-NE | Breaker | No Hazardous Components | NONE |
| | FRW-18 | Friction Reducer | Petroleum Distillate Hydrotreated Light | 064742-47-8 |
| | OW OLDE | 0-1 | Petroleum Distillate Blend | N/A-014 |
| | GW-3LDF | Gel | Polysaccharide Blend | N/A-021 |
| | 904 FTPQ1 700 | | Diethylene Glycol 002 | 000111-46-6 |
| | SCALETROL 720 | Scale Inhibitor | Ethylene Glycol | 000107-21-1 |
| | | | Boric Acid | 010043-35-3 |
| | XLW-32 | Crosslinker | Methanol (Methyl Alcohol) | 000067-56-1 |
| | APB01 (AMMONIUM PERSUFATE BREAKER) | Breaker | Ammonium Persulfate | 007727-54-0 |
| | B05 (LOW PH BUFFER) | Buffer | Acetic acid | 000064-19-7 |
| | BXL03 Borate XL Delayed High Temp | Crosslinker | No Hazardous Components | NONE |
| FRAC TECH SERVICES | FRW-200 | Friction Reducer | No Hazardous Components | NONE |
| | HVG01 (TURQUOISE-1 BULK) | Gelling Agent | Petroleum Distillate Hydrotreated Light | 064742-47-8 |
| | KCLS-4 | | No Hazardous Components | NONE |
| | LTB-1 | Breaker | Ammonium Persulfate | N/A |

| Supplier Name | Product Name | Product Use | Chemical Name | CAS Number | |
|---------------|-----------------------------------|------------------|----------------------------------------------------------------------------|---------------------------|--|
| | | | Ethanol | 000064-17-5 | |
| NALCO | EC6110A | Biocide | Glutaraldehyde (Pentanediol) | 000111-30-8 | |
| ONESOURCE | | | Quaternary Ammonium Compounds | N/A-063 | |
| | EC6629A | Biocide | No Hazardous Components | NONE | |
| | WBK-133 OXIDIZER | Breaker | Ammonium Persulfate | 007727-54-0 | |
| | WDV 104 | | Ammonium Persulfate | 007727-54-0 | |
| | WBK-134 | Breaker | Crystalline Silica (Quartz Sand, Silicon Dioxide) | 014808-60-7 | |
| | WOO 6241 O | Clau Ctabiliana | Proprietary Non Hazardous Salt | N/A-229 | |
| | WCS-631LC | Clay Stabilizer | Water | 007732-18-5 | |
| | WFR-55LA | Friction Reducer | No Hazardous Components | NONE | |
| | WGA-15L | Gel | Petroleum Distillate Hydrotreated Light | 064742-47-8 | |
| WEATHERFORD | | in a line by | Potassium Carbonate | 000584-08-7 | |
| | WPB-584-L | Buffer | Potassium Hydroxide | 001310-58-3 | |
| | WXL-101LE | Corsslinker | No Hazardous Components | NONE | |
| | WXL-101LM | Crosslinker | Petroleum Distillate Hydrotreated Light | 064742-47-8 | |
| | | | Water | 007732-18-5 | |
| | WW | | Ethylene Glycol | 000107-21-1 | |
| | WXL-105L | Crosslinker | Boric Acid | 010043-35-3 | |
| | | | Ethanolamine | 000141-43-5 | |
| | B244 Green-Cide 25G | Biocide | Glutaraldehyde | 111-30-8 | |
| | L071 Temporary Clay Stabilizer | Clay Stabilizer | Cholinium Chloride | 67-48-1 | |
| | Breaker J218 | | Diammonium Peroxidisulphate | 7727-54-0 | |
| SCHLUMBERGER | EB-Clean* J475 Breaker | Breaker | Diammonium Peroxidisulphate | 7727-54-0 | |
| | Friction Reducer B315 | Friction Reducer | Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether | 64742-47-8 Proprietary | |
| | Friction Reducer J609 | - Hotoli Koddoel | Ammonium Sulfate Received | 7783-20-2 | |
| Supplier Name | Product Name | Product Use | | CAS Number | |

| | Water Gelling Agent J580 | Gel | Carbohydrate Polymer | Proprietary |
|--------------|--------------------------|------------------------------------------------------------|-------------------------------------------------|---------------------------|
| SCHLUMBERGER | Scale Inhibitor B317 | Scale Inhibitor Trisodium ortho phosphate Ethane-1, 2-diol | | 7601-54-9 107-21-1 |
| SCHLUWBERGER | Borate Crosslinker J532 | Crosslinker | Aliphatic polyol Sodium tetraborate decahydrate | Proprietary 1303- 96-4 |
| | Crosslinker J610 | Crossilliker | Aliphatic polyol Potassium hydroxide | Proprietary 1310- 58-3 |

4706900203



WEST VIRGINIA 811

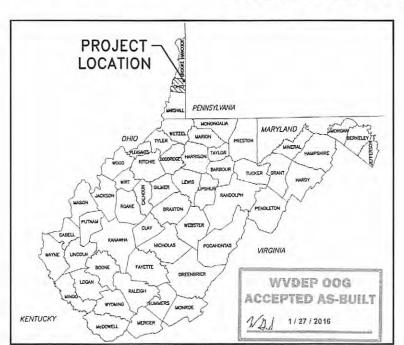
YOU DIG!

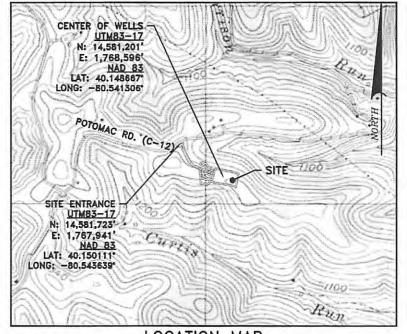
Dial 811 or 800.245.4848

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 MSS UTILITY OF WEST WIRGINS AT 811 OR 1-800-245-4848.

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







COUNTY MAP

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

PRINTED NAME: BRIAN D. SPRAY, PE



SWN

Southwestern Energy®

OPERATOR

SWN PRODUCTION CO., LLC P.O. BOX 1300 JANE LEW, WV 26378 (832) 795-1610

LIST OF DRAWINGS

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

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

MRD6.2 DETAILS
MRD6.3 DETAILS

LOCATION MAP

SCALE - 1"=1000"

SITE DATA

TOTAL DISTURBED AREA: 8.0 ACRES

ROAD DISTURBED AREA: 2.5 ACRES

PAD DISTURBED ACRES: 5.5 ACRES

ACCESS ROAD AVERAGE WIDTH: 20'

ACCESS ROAD LENGTH: 787'

WELL PAD ELEVATION: 1292.0'

WELL API NUMBERS

SH API 069-000B1

CELLAR CELLAR DIAMETER DEPTH MATERIAL CMP

FT 8 FT CMF

TS1.1

-000B1 CELLAR MATERIAL CMP

COVER SHEET
FOR
RY KESTNER P

PAD

GARY KI

COUNTY,

087569022

01/11/2016 AS SHOWN

DATE: __

DRAWN BY:



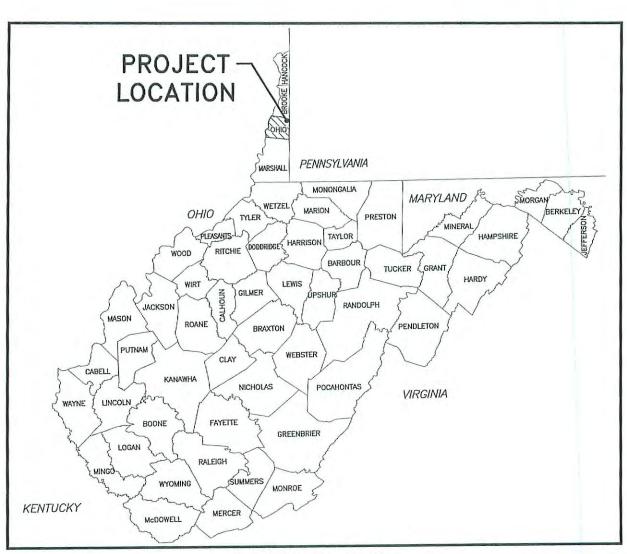
YOU DIG!

Dial 811 or 800.245.4848

Miss 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 CONTACT CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848.

AS-BUILT SIT FOR GARY KESTNE LIBERTY DISTRICT, OH



COUNTY MAP

V.T.S.

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



SWN

Southwestern Energy®

OPERATOR

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

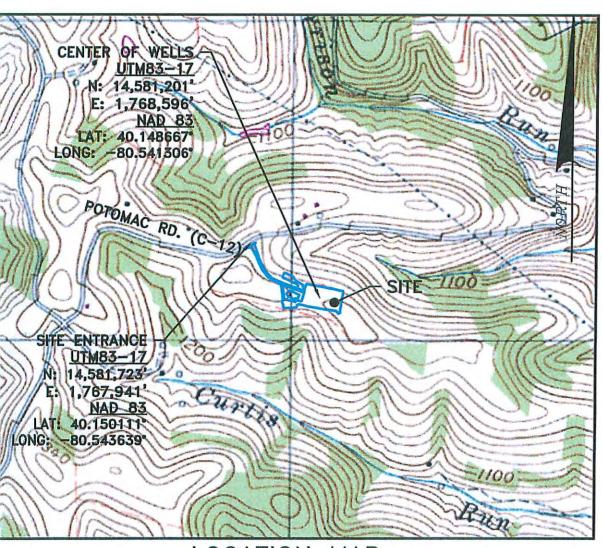
LIST OF DR

| TS1.1 | | | | | | ٠ | . COVER SH |
|--------|---|---|----|---|---|---|--------------|
| EP2.1 | | | | | | | . EVACUATION |
| EP2.2 | | | | | | | . EVACUATI |
| AS3.1 | | | | | | | . AS-BUILT |
| AS3.2 | | | | | | | . AS-BUILT |
| AS3.3 | | | | | | | . AS-BUILT |
| CRA4.1 | | | | | | | . ACCESS R |
| CRA4.2 | | | | | | | . WELL PAD |
| MRP5.1 | | | | | | | . OVERALL |
| 1RP5.2 | | | | | | | . RECLAMAT |
| MRP5.3 | | | | | | | . RECLAMAT |
| ARD6.1 | | | | | | • | . DETAILS |
| IRD6.2 | | | | | | | . DETAILS |
| | | | | | | | DETAILS |
| U4/ | ľ | , | ı/ | _ | · | , | IU |

EPLAN di Bla 1.12.16

ER PAD "A" **IO COUNTY, WV**





A etelied

JAN 1 3 2016

WINGS

ET N ROUTE/PREVAILING WINDS N ROUTE/PREVAILING WINDS OVERALL SITE PLAN

SITE PLAN SITE PLAN AD PROFILE CROSS SECTIONS ECLAMATION PLAN ON 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'

Office of Oil 9 Ga **NUMBERS**

3H API 069-00081

CELLAR **CELLAR** DIAMETER DEPTH

MATERIAL

CELLAR

DRAWN DATE

DAB

SCALE:

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AS SHOWN

6600 Steubenville Pike, Suite 200,

COUNTY

GARY KESTNER PAD COVER SHEET
FOR

04/01/2016

TS1.1