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**west virginia** department of environmental protection

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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

April 21, 2015

**WELL WORK PERMIT**

**Horizontal 6A Well**

This permit, API Well Number: 47-10303096, 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.

James Martin  
Chief

Operator's Well No: WTZ 1H  
Farm Name: RIDGETOP CAPITAL, LP  
**API Well Number: 47-10303096**  
**Permit Type: Horizontal 6A Well**  
Date Issued: 04/21/2015

**Promoting a healthy environment.**

## PERMIT CONDITIONS

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

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### CONDITIONS

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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 fifty (50) 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. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

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

1) Well Operator: Chesapeake Appalachia, LLC

|                 |                   |                   |                       |
|-----------------|-------------------|-------------------|-----------------------|
| <u>49447757</u> | <u>103-Wetzel</u> | <u>7- Proctor</u> | <u>681-Wileyville</u> |
|-----------------|-------------------|-------------------|-----------------------|

  
Operator ID County District Quadrangle

2) Operator's Well Number: Ridgetop Land Ventures WTZ 1H Well Pad Name: Ridgetop Land Ventures PAD

3) Farm Name/Surface Owner: Ridgetop Capital, LP Public Road Access: Harlan Ridge Road

4) Elevation, current ground: 1436' Elevation, proposed post-construction: 1436'

5) Well Type (a) Gas  Oil  Underground Storage   
Other

(b) If Gas Shallow  Deep   
Horizontal

6) Existing Pad: Yes or No Yes DMH 4-14-15

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):  
Target formation- Marcellus Target top TVD- 7329' Target base TVD- 7349' Anticipated thickness-50 Associated Pressure- 4650

8) Proposed Total Vertical Depth: 7285'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 12,900'

11) Proposed Horizontal Leg Length: 4127'

12) Approximate Fresh Water Strata Depths: 696'

13) Method to Determine Fresh Water Depths: Data was gathered from e-logs, drillers logs, and from nearby water wells

14) Approximate Saltwater Depths: 1911'

15) Approximate Coal Seam Depths: 1340'

16) Approximate Depth to Possible Void (coal mine, karst, other): none that we are aware of.

17) Does Proposed well location contain coal seams directly overlying or adjacent to an active mine? Yes  No

(a) If Yes, provide Mine Info: Name: \_\_\_\_\_  
Depth: \_\_\_\_\_  
Seam: \_\_\_\_\_  
Owner: \_\_\_\_\_

WW-6B  
(9/13)

18)

CASING AND TUBING PROGRAM

| TYPE         | Size    | New or Used | Grade   | Weight per ft. (lb/ft) | FOOTAGE: For Drilling | INTERVALS: Left in Well | CEMENT: Fill-up (Cu. Ft.)                   |
|--------------|---------|-------------|---------|------------------------|-----------------------|-------------------------|---|
| Conductor    | 20"     | New         | H-40    | 94#                    | 122'                  | 122'                    | CTS   |
| Fresh Water  | 13 3/8" | New         | J-55    | 54.5#                  | 755'                  | 755'                    | 685 sx/CTS                                  |
| Coal         | 9 5/8"  | New         | J-55    | 40#                    | 2980'                 | 2980'                   | 1124 sx/CTS                                 |
| Intermediate | 7"      | New         | HCP-110 | 20#                    | If Needed             | If Needed               | If Needed/As Needed                         |
| Production   | 5 1/2"  | New         | HCP-110 | 20#                    | 12,700'               | 12,700'                 | Let's 1022 on Tub 1117 and 1027 on Tub 1118 |
| Tubing       | 2 3/8"  | New         | N-80    | 4.7#                   | Approx. 8078'         | Approx. 8078'           |   |
| Liners       |         |             |         |                        |                       |                         |   |

DMH 4-14-15

| TYPE         | Size    | Wellbore Diameter | Wall Thickness | Burst Pressure | Cement Type | Cement Yield (cu. ft./k) |
|--------------|---------|-------------------|----------------|----------------|-------------|--------------------------|
| Conductor    | 20"     | 30"               | 0.25           | 2120           | Class A     | 1.19/50% Excess          |
| Fresh Water  | 13 3/8" | 17.5"             | 0.380          | 2740           | Class A     | 1.19/50% Excess          |
| Coal         | 9 5/8"  | 12 1/4"           | 0.395          | 3950           | Class A     | 1.19/50% Excess          |
| Intermediate | 7"      | 8 3/4"            | 0.317          | 4360           | Class A     | 1.20/15% Excess          |
| Production   | 5 1/2"  | 8 3/4"            | 0.361          | 12360          | 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: |                    |  |  |  |

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

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

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 7.6

22) Area to be disturbed for well pad only, less access road (acres): 6.6

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.

*DMH 2-4-15*

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

See Attachment \*\*\*

25) Proposed borehole conditioning procedures:

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

Received

MAR 9 2015

\*Note: Attach additional sheets as needed.

\*\*\*Ref: 2013-78

| Product Name  | Product Use              | Chemical Name                        | CAS Number  |
|---------------|--------------------------|--------------------------------------|-------------|
| D046          | antifoam                 | Fuller's earth (attapuligite)        | 8031-18-3   |
| D130          | polyester flake - lcm    | Polypropylene glycol                 | 25322-69-4  |
| S001          | calcium chloride         | polyethylene terephthalate           | 25038-59-9  |
|               |                          | calcium chloride                     | 10043-52-4  |
| <b>SPACER</b> |                          |                                      |             |
| D130          | polyester flake - lcm    | polyethylene terephthalate           | 25038-59-9  |
| D020          | bentonite extender       | bentonite                            | 1302-78-9   |
| D046          | antifoam                 | Fuller's earth (attapuligite)        | 8031-18-3   |
| D130          | polyester flake - lcm    | Polypropylene glycol                 | 25322-69-4  |
| D044          | granulated salt          | polyethylene terephthalate           | 25038-59-9  |
| D153          | Anti-Settling Agent      | sodium chloride                      | 7647-14-5   |
|               |                          | crystalline silica                   | 14808-60-7  |
| <b>SPACER</b> |                          |                                      |             |
| D020          | bentonite extender       | bentonite                            | 1302-78-9   |
| D130          | polyester flake - lcm    | polyethylene terephthalate           | 25038-59-9  |
| D080          | cement liquid dispersant | product classified as non-hazardous. |             |
| D801          | mid-temp retarder        | product classified as non-hazardous  |             |
| D047          | antifoam agent           | polypropylene glycol                 | 25322-69-4  |
| <b>SPACER</b> |                          |                                      |             |
| B389          | MUDPUSH* Express         | Carbohydrate                         | proprietary |
| D206          | Antifoaming Agent        | Silica Organic Polymer               | proprietary |
| D031          | barite                   | barium sulfate                       | 7727-43-7   |
|               |                          | fatty acid amine                     | proprietary |
|               |                          | ethoxylated alcohol                  | proprietary |
|               |                          | glycerol                             | 56-81-5     |
| B220          | surfactant               | 2,2'-iminodethanol                   | 111-42-2    |
| D167          | UNIFLAC* S               | aliphatic amide polymer              | proprietary |

*PMH*  
3-4-15

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47 10303096

| % Concentration Used |
|----------------------|
| 0.2% BWOC            |
| 0.125 lb/sk          |
| 2% BWOC              |
|                      |
| 1 lb/bbl             |
| 20 lb/bbl            |
| 0.2% BWOC            |
|                      |
| 0.125 lb/sk          |
| 10% BWOW             |
| 0.15% BWOC           |
|                      |
| 20 lb/bbl            |
| 1 lb/bbl             |
| 0.05 gal/sk          |
| 0.01 gal/sk          |
| 0.02 gal/sk          |
|                      |
| 1 lb/bbl             |
| 0.1 gal/bbl          |
| 310 lb/bbl           |
|                      |
|                      |
| 1 gal/bbl            |
| 0.35% BWOC           |

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WV Dept. of Environmental Protection

4710303096

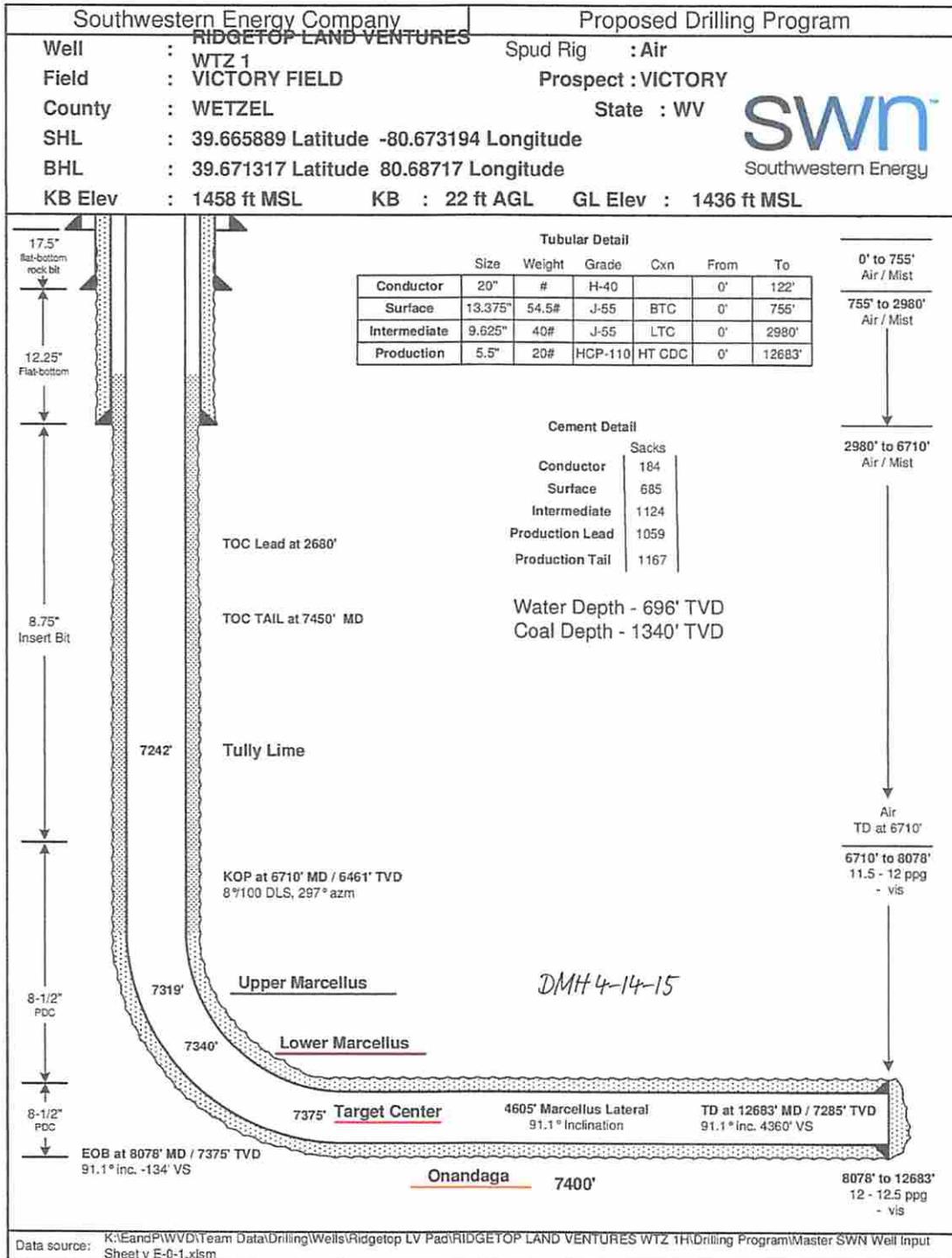
|             |
|-------------|
| 6% BWOC     |
| 0.8% BWOC   |
| 0.2% BWOC   |
| 0.2% BWOC   |
| 0.2% BWOC   |
| 0.3% BWOC   |
| 0.2% BWOC   |
| 0.35% BWOC  |
| 0.25% BWOC  |
| 0.2% BWOC   |
| 0.2% BWOC   |
|             |
| proprietary |
| proprietary |
| 7727-43-7   |
| proprietary |
| proprietary |
| 56-81-5     |
| 111-42-2    |

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WV Dept. of Environmental Protection

4710303096



Data source: K:\EandP\WVD\Team Data\Drilling\Wells\Ridgetop LV Pac\RIDGETOP LAND VENTURES WTZ 1H\Drilling Program\Master SWN Well Input Sheet v E-0-1.xlsm

NOTE: This drawing was created for the Spudder Rig. The depths and lengths shown in the plot are referenced to Spudder Rig RKB.

WW-9  
(9/13)

API Number 47 - 69

4710303096

Operator's Well No. Ridgetop Land Ventures WTZ 1H

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 49447757

Watershed (HUC 10) Middle Ohio North Quadrangle 681-Wileyville

Elevation 1436' County 103-Wetzel District 7-Proctor

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes  No

Will a pit be used? Yes  No

If so, please describe anticipated pit waste: closed loop system in place at this time- cuttings will be taken to a permitted landfill.

Will a synthetic liner be used in the pit? Yes  No  If so, what ml.?

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection ( UIC Permit Number 2D0072539/ 2D0413175/ 2D0610306/ 2D0610317 )
- Reuse (at API Number at next anticipated well, API# will be included with the WR-34/DDMR &/or permit addendum. )
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain flow back fluids will be put in steel tanks and reused or taken to a permitted disposal facility.)

Will closed loop system be used? If so, describe: Yes

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. An oil to KOP, Field drill with NORM from KOP to TD

-If oil based, what type? Synthetic, petroleum, etc. Synthetic Oil Base

Additives to be used in drilling medium? see attached sheets

Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. landfill

-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) \_\_\_\_\_

-Landfill or offsite name/permit number? mandatory SWF- 1032, BS Grading SWF- 4902, Hardrock SWF- 1025, Blast Creek 1034/WVU102617/CID28726, Carbon Limestone 28726/CID28726

Arden Landfill 10U/Z, American UZ-12954, Country wide 3839U/CID3839U, Pine Grove 13688

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action.

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto 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 or imprisonment.

Company Official Signature [Signature]

Company Official (Typed Name) Dee Southall

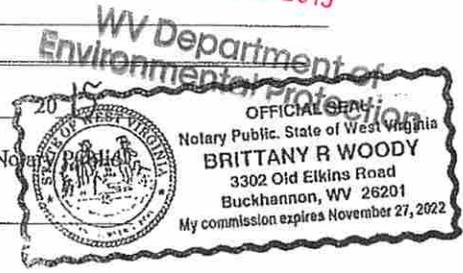
Company Official Title Regulatory Supervisor

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Office of Oil and Gas

APR 15 2015

Subscribed and sworn before me this 15th day of April

Brittany R Woody  
My commission expires 11/27/22



4710303096

Form WW-9

Operator's Well No. Ridgetop Land Ventures WTZ 1H

**SWN Production Co., LLC**

Proposed Revegetation Treatment: Acres Disturbed 7.6 Prevegetation pH \_\_\_\_\_

Lime as determined by pH test min. 2 \_\_\_\_\_ Tons/acre or to correct to pH 6.5

Fertilizer type 10-20-20

Fertilizer amount 600 lbs/acre

Mulch Hay/Straw 2.5 Tons/acre

Seed Mixtures

**Temporary**

**Permanent**

| Seed Type     | lbs/acre |
|---------------|----------|
| White Grove   | 15       |
| Red Top       | 15       |
| Orchard Grass | 20       |

| Seed Type     | lbs/acre |
|---------------|----------|
| White Grove   | 15       |
| Red Top       | 15       |
| Orchard Grass | 20       |

**Attach:**

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: [Signature]

Comments: \_\_\_\_\_

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Office of Oil and Gas  
WV Dept. of Environmental Protection

Title: Oil and Gas Inspector

Date: 3-4-15

Field Reviewed?  Yes

No

4710303096

**Marcellus Well Drilling Procedures  
And Site Safety Plan**

SWN Production Co., LLC

47 - <sup>103</sup>~~DSK~~ -

Well name: Ridgetop Land Ventures WTZ 1H  
Wileyville, Quad  
Proctor, District  
Wetzel County, West Virginia

Submitted by:

Danielle Southall

2/10/2015

Date:

Title Regulatory Supervisor

SWN Production Co., LLC

Approved by:

Date:

3-4-15

Title: Oil + Gas Inspector

Approved by:

Date:

Title: \_\_\_\_\_

SWN Production Co., LLC – Confidential

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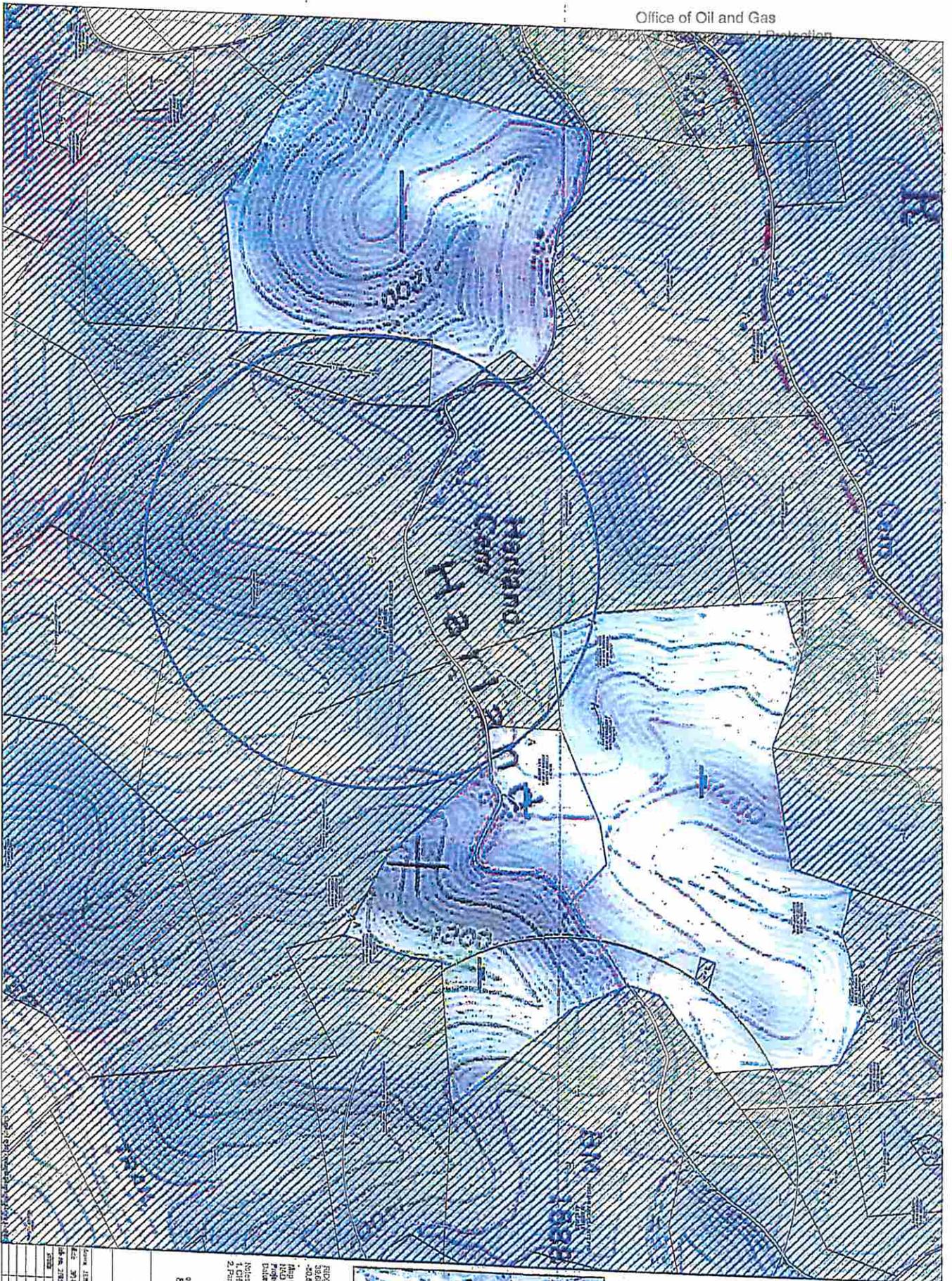
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WV Dept. of Environmental Protection

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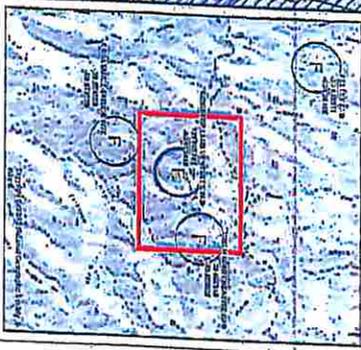
MAR 9 2015

Office of Oil and Gas  
Environmental Protection



**Legend**

- F RIDGE TOP LAND VENTURES PAD - 911971
- Roads
- A Baseline Sampling Location
- USGS NWIS Water Quality Well
- USGS NWIS Water Level Well
- USGS NURE Well
- 1500' Radius of Other CHK Site
- 1500' Radius of Site
- Other Parcels
- Parcel Within 1500' of Site With Potential Water Sources - 9 Parcels Highlighted



RIDGE TOP LAND VENTURES PAD - 911971  
-911971

Map Coordinate System:  
NAD 83 StatePlane West Virginia North FIPS 4701 Feet  
Projection: Lambert Conformal Conic  
Datum: NAD83 Datum 1983

Note:  
1. CHK is abbreviation for Checkwell Fracture  
2. Parcel information from Chesapeake Energy



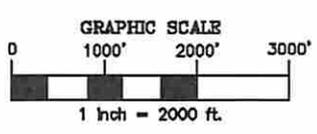
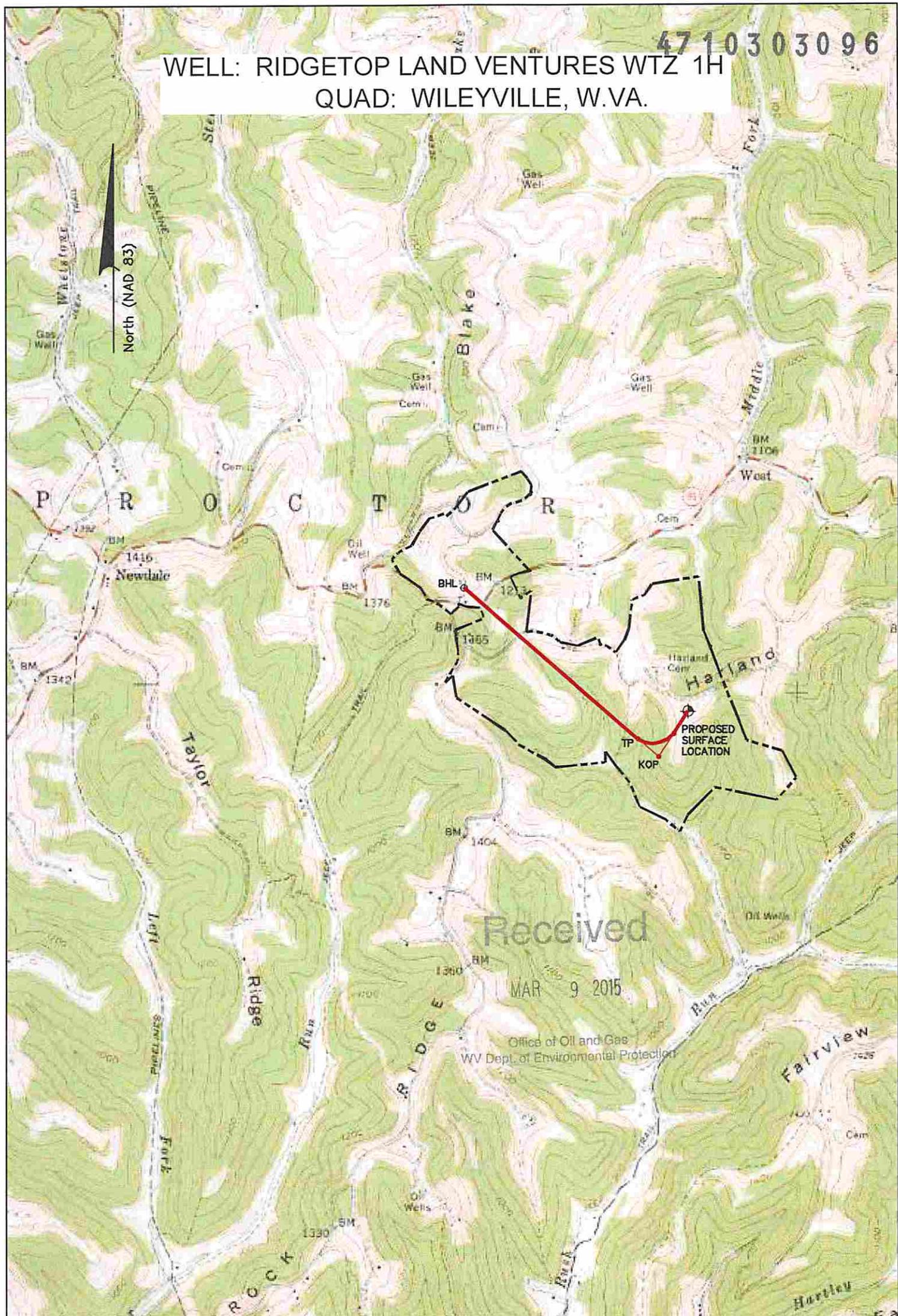
RIDGE TOP LAND VENTURES PAD - 911971  
West County, West Virginia  
**Site Parcel Map**

| Area | Area | Area | Area |
|------|------|------|------|
| 1    | 2    | 3    | 4    |
| 5    | 6    | 7    | 8    |
| 9    | 10   | 11   | 12   |
| 13   | 14   | 15   | 16   |
| 17   | 18   | 19   | 20   |
| 21   | 22   | 23   | 24   |
| 25   | 26   | 27   | 28   |
| 29   | 30   | 31   | 32   |
| 33   | 34   | 35   | 36   |
| 37   | 38   | 39   | 40   |
| 41   | 42   | 43   | 44   |
| 45   | 46   | 47   | 48   |
| 49   | 50   | 51   | 52   |
| 53   | 54   | 55   | 56   |
| 57   | 58   | 59   | 60   |
| 61   | 62   | 63   | 64   |
| 65   | 66   | 67   | 68   |
| 69   | 70   | 71   | 72   |
| 73   | 74   | 75   | 76   |
| 77   | 78   | 79   | 80   |
| 81   | 82   | 83   | 84   |
| 85   | 86   | 87   | 88   |
| 89   | 90   | 91   | 92   |
| 93   | 94   | 95   | 96   |
| 97   | 98   | 99   | 100  |



4710303096

WELL: RIDGETOP LAND VENTURES WTZ 1H  
QUAD: WILEYVILLE, W.VA.



NOTE:  
THE PURPOSE OF THIS PLAT IS FOR THE  
LOCATION OF PROPOSED GAS  
WELLS AND DOES NOT REPRESENT A CLOSED  
BOUNDARY SURVEY. PROPERTY LINES AND  
OWNERS WERE OBTAINED FROM VARIOUS FIELD  
EVIDENCE, TAX RECORDS AND AERIAL MAPPING.

*DMH*  
*3-4-15*

**LEGEND**

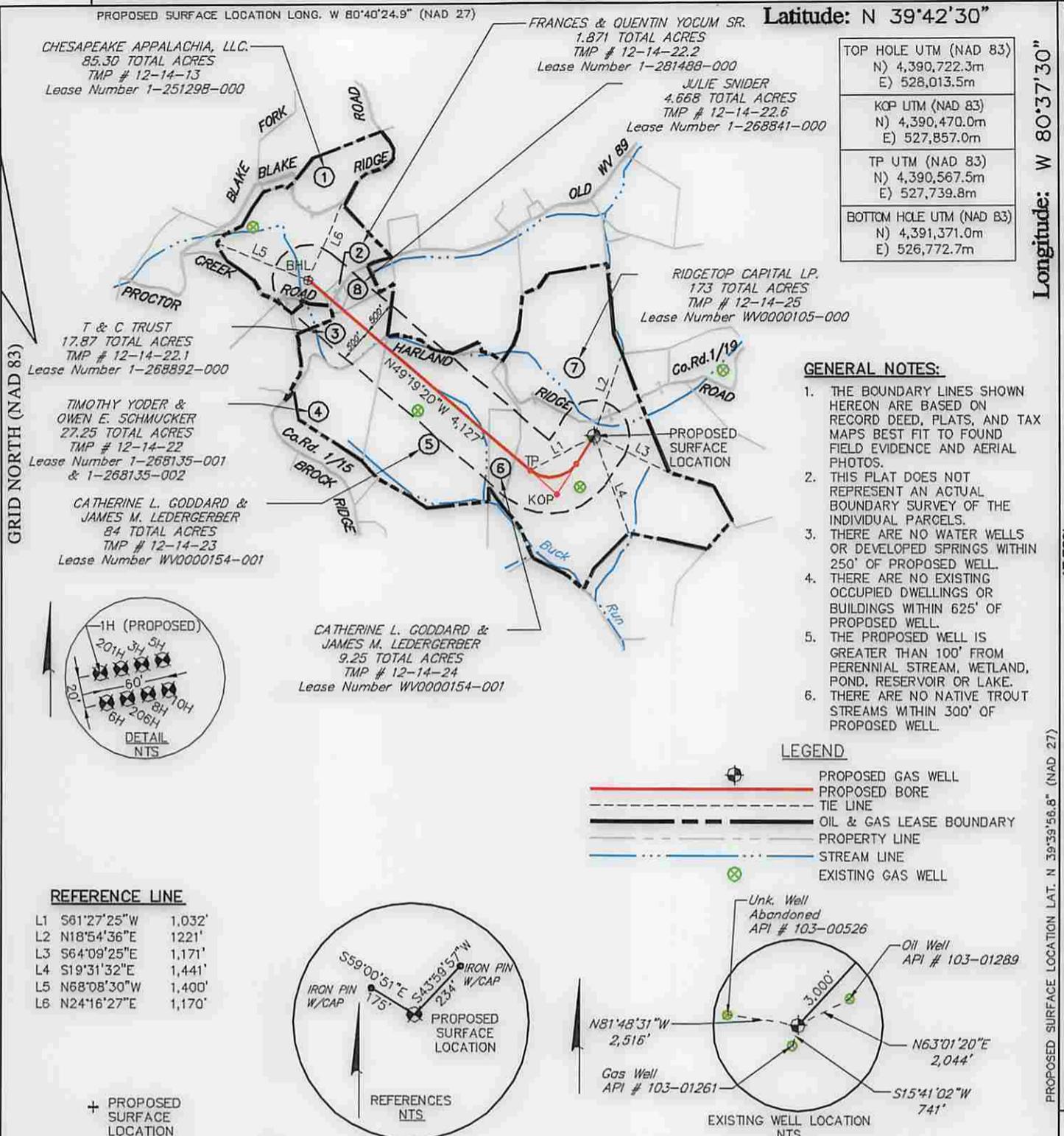
- PROPOSED GAS WELL
- BOTTOM HOLE LOCATION
- PROPOSED BORE
- OIL & GAS LEASE BOUNDARY

|  |   |                     |          |
|--|---|---------------------|----------|
| Applicant / Well Operator Name<br>SWN PRODUCTION, CO., LLC | Well (Farm) Name<br>RIDGETOP LAND VENTURES WTZ      | Well #<br>1H        | Serial # |
| Address<br>P.O. BOX 1300, JANE LEW, WV, 26378              | County - Code<br>WETZEL - 103                       | District<br>PROCTOR |          |
| Surface Landowner / Lessor<br>RIDGETOP CAPITAL, LP         | USGS 7 1/2 Quadrangle Map Name<br>WILEYVILLE, W.VA. |                     |          |

13,686'

Latitude: N 39°42'30"

Longitude: W 80°37'30"



GENERAL NOTES:

1. THE BOUNDARY LINES SHOWN HEREON ARE BASED ON RECORD DEED, PLATS, AND TAX MAPS BEST FIT TO FOUND FIELD EVIDENCE AND AERIAL PHOTOS.
2. THIS PLAT DOES NOT REPRESENT AN ACTUAL BOUNDARY SURVEY OF THE INDIVIDUAL PARCELS.
3. THERE ARE NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250' OF PROPOSED WELL.
4. THERE ARE NO EXISTING OCCUPIED DWELLINGS OR BUILDINGS WITHIN 625' OF PROPOSED WELL.
5. THE PROPOSED WELL IS GREATER THAN 100' FROM PERENNIAL STREAM, WETLAND, POND, RESERVOIR OR LAKE.
6. THERE ARE NO NATIVE TROUT STREAMS WITHIN 300' OF PROPOSED WELL.

LEGEND

- PROPOSED GAS WELL
- PROPOSED BORE TIE LINE
- OIL & GAS LEASE BOUNDARY
- PROPERTY LINE
- STREAM LINE
- EXISTING GAS WELL

PROPOSED SURFACE LOCATION LAT. N 39°39'56.8" (NAD 27)

FILE #: 10-08541-579

DRAWING #: 10-08541-579\_WELL PLAT

SCALE: 1" = 2,000'

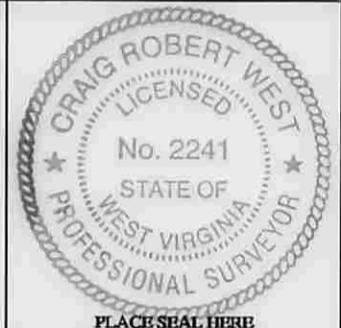
MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SOURCE OF ELEVATION: NGS (CORS)

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE RULES ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

SIGNED: *Craig Robert West*

R.P.E.: \_\_\_\_\_ L.L.S.: 2241



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

OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25304



DATE: OCTOBER 6, 2014

OPERATOR'S WELL #: RIDGETOP LAND VENTURES WIZ 1H

API WELL #: 47 103 03096 H6 A

STATE COUNTY PERMIT

WELL TYPE:  OIL  WASTE DISPOSAL  PRODUCTION  DEEP

GAS  LIQUID INJECTION  STORAGE  SHALLOW

WATERSHED: LITTLE FISHING CREEK ELEVATION: 1,438' (AS-BUILT)

COUNTY/DISTRICT: WETZEL / PROCTOR QUADRANGLE: WILEYVILLE, W.V.A.

SURFACE OWNER: RIDGETOP CAPITAL, LP ACREAGE: 173 ±

OIL & GAS ROYALTY OWNER: RIDGETOP CAPITAL, LP ACREAGE: 173 ±

DRILL  CONVERT  DRILL DEEPER  REDRILL  FRACTURE OR STIMULATE

PLUG OFF OLD FORMATION  PERFORATE NEW FORMATION  PLUG & ABANDON

CLEAN OUT & REPLUG  OTHER CHANGE  (SPECIFY): \_\_\_\_\_

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 12,306' TMD / 7,300' TVD

WELL OPERATOR: SWN PRODUCTION CO., LLC DESIGNATED AGENT: DEE SOUTHALL

ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300

CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

WW-6A1  
(5/13)

Operator's Well No. 4710303096

**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

Received

MAR 9 2015

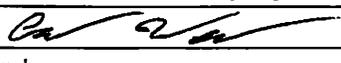
Office of Oil and Gas  
WV Dept. of Environmental Protection

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

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

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

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

Well Operator: SWN Production Company, LLC.  
 By:   
 Its: Landman

Kiddetop Land Ventures WTB #

| ID # | Tax Map Parcel | Lease Number  | Grantor, Lessor, etc.   | Grantee, Lessee, etc.                  | Royalty | Book/Page |
|------|----------------|---------------|---|--|---------|-----------|
| 1 ✓  | 12-T14-13      | 1-251298-000  | James P. Messenger and Karen J. Messenger, his wife   | Chesapeake Appalachia, LLC             | 12.5%   | 92A/660   |
|      |                |               | Chesapeake Appalachia, L.L.C.   | SWN Production Company, LLC            |         | 157A/540  |
| 2 ✓  | 12-T14-22.2    | 1-281488-000  | Quentin Yocum, Sr., and Frances Yocum, his wife   | Chesapeake Appalachia, LLC             | 12.5%   | 101A/205  |
|      |                |               | Chesapeake Appalachia, L.L.C.   | SWN Production Company, LLC            |         | 157A/540  |
| 3 ✓  | 12-T14-22.1    | 1-268892-000  | T & C Trust by Esther Lee, acting as Trustee  | Chesapeake Appalachia, LLC             | 12.5%   | 98A/783   |
|      |                |               | Chesapeake Appalachia, L.L.C.   | SWN Production Company, LLC            |         | 157A/540  |
| 4 ✓  | 12-T14-22      | 1-268135-001  | Timothy Yoder, a married man dealing in his sole and separate property                                    | Chesapeake Appalachia, LLC             | 12.5%   | 98A/177   |
|      |                |               | Owen E. Schmucker, a married man dealing in his sole and separate property                                | Chesapeake Appalachia, LLC             | 12.5%   | 98A/180   |
|      |                |               | Chesapeake Appalachia, L.L.C.   | SWN Production Company, LLC            |         | 157A/540  |
| 5 ✓  | 12-T14-23      | WV0000154-001 | Hazel Goddard, a widow  | Haddad and Brooks, Inc.                | 12.5%   | 82A/103   |
|      |                |               | Haddad and Brooks, Inc.   | Chesapeake Appalachia, LLC             |         | 104A/230  |
|      |                |               | Chesapeake Appalachia, L.L.C.   | SWN Production Company, LLC            |         | 157A/540  |
| 6 ✓  | 12-T14-24      | WV0000154-001 | Hazel Goddard, a widow  | Haddad and Brooks, Inc.                | 12.5%   | 82A/103   |
|      |                |               | Haddad and Brooks, Inc.   | Chesapeake Appalachia, LLC             |         | 104A/230  |
|      |                |               | Chesapeake Appalachia, L.L.C.   | SWN Production Company, LLC            |         | 157A/540  |
| 7 ✓  | 12-T14-25      | WV0000105-000 | Everett Goddard and Hazel Goddard, his wife   | Mobay Chemical Corporation             | 12.5%   | 63A/471   |
|      |                |               | Mobay Chemical Corporation  | Haddad and Brooks, Inc.                |         | 65A/67    |
|      |                |               | Haddad and Brooks, Inc.   | Sun Exploration and Production Company |         | 65A/195   |
|      |                |               | Haddad and Brooks, Inc.   | Natmin Development Corporation         |         | 67A/516   |
|      |                |               | Sun Exploration and Production Company  | Sun Operating Limited Partnership      |         | 69A/502   |
|      |                |               | Sun Operating Limited Partnership, by Sun Exploration and Production Company, as Managing General Partner | Haddad and Brooks, Inc.                |         | 70A/265   |
|      |                |               | Haddad and Brooks, Inc. a/k/a Haddad & Brooks, Inc.   | Chesapeake Appalachia, LLC             |         | 102A/302  |
|      |                |               | Chesapeake Appalachia, L.L.C.   | SWN Production Company, LLC            |         | 157A/540  |
| 8 ✓  | 12-14T-22.6    | 1-268841-000  | Nila L. Snider, a single woman  | Chesapeake Appalachia, LLC             | 12.5%   | 98A/189   |
|      |                |               | Chesapeake Appalachia, L.L.C.   | SWN Production Company, LLC            |         | 157A/540  |

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MAR 9 2015  
 47103030  
 Office of Oil and Gas

4710303096

# SWN

Southwestern Energy®

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

February 10, 2015

Ms. Laura Cooper  
WV DEP Office of Oil & Gas  
601 57<sup>th</sup> St., SE  
Charleston, WV 25304

**RE:** SWN's proposed Ridgetop Land Ventures WTZ 1H in Wetzel County, West Virginia,  
Drilling under Harlan Ridge Road and Old WV 89.

Dear Ms. Cooper:

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 Harlan Ridge Road and Old WV 89. 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,



Caleb Weaver  
Landman  
SWN Production Company, LLC  
PO Box 1300  
Jane Lew, WV 26378

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Office of Oil and Gas  
WV Dept. of Environmental Protection



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



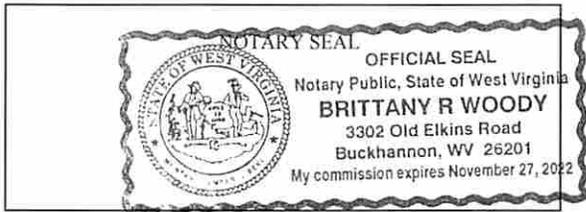
4710303096

**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: Regulatory Supervisor  
Telephone: 832-796-1610

Address: P.O. Box 1300  
Jane Lew, WV 26378  
Facsimile: \_\_\_\_\_  
Email: Dee\_Southall@swn.com



Subscribed and sworn before me this 10th day of February 2015  
Brittany R Woody Notary Public  
My Commission Expires 11/27/22

**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](mailto:depprivacyofficer@wv.gov).

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Office of Oil and Gas  
WV Dept. of Environmental Protection

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

Notice Time Requirement: notice shall be provided no later than the filing date of permit application. **47 103 03096**

Date of Notice: 3/6/15 Date Permit Application Filed: 3/6/15

Notice of:

- PERMIT FOR ANY WELL WORK
- CERTIFICATE OF APPROVAL FOR THE CONSTRUCTION OF AN IMPOUNDMENT OR PIT

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

- PERSONAL SERVICE
- REGISTERED MAIL
- METHOD OF DELIVERY THAT REQUIRES A RECEIPT OR SIGNATURE CONFIRMATION

Pursuant to W. Va. Code § 22-6A-10(b) no later than the filing date of the application, the applicant for a permit for any well work or for a certificate of approval for the construction of an impoundment or pit as required by this article shall deliver, by personal service or by registered mail or by any method of delivery that requires a receipt or signature confirmation, copies of the application, the erosion and sediment control plan required by section seven of this article, and the well plat to each of the following persons: (1) The owners of record of the surface of the tract on which the well is or is proposed to be located; (2) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for roads or other land disturbance as described in the erosion and sediment control plan submitted pursuant to subsection (c), section seven of this article; (3) The coal owner, operator or lessee, in the event the tract of land on which the well proposed to be drilled is located [sic] is known to be underlain by one or more coal seams; (4) The owners of record of the surface tract or tracts overlying the oil and gas leasehold being developed by the proposed well work, if the surface tract is to be used for the placement, construction, enlargement, alteration, repair, removal or abandonment of any impoundment or pit as described in section nine of this article; (5) Any surface owner or water purveyor who is known to the applicant to have a water well, spring or water supply source located within one thousand five hundred feet of the center of the well pad which is used to provide water for consumption by humans or domestic animals; and (6) The operator of any natural gas storage field within which the proposed well work activity is to take place. (c)(1) If more than three tenants in common or other co-owners of interests described in subsection (b) of this section hold interests in the lands, the applicant may serve the documents required upon the person described in the records of the sheriff required to be maintained pursuant to section eight, article one, chapter eleven-a of this code. (2) Notwithstanding any provision of this article to the contrary, notice to a lien holder is not notice to a landowner, unless the lien holder is the landowner. W. Va. Code R. § 35-8-5.7.a requires, in part, that the operator shall also provide the Well Site Safety Plan ("WSSP") to the surface owner and any water purveyor or surface owner subject to notice and water testing as provided in section 15 of this rule.

Application Notice  WSSP Notice  E&S Plan Notice  Well Plat Notice is hereby provided to:

SURFACE OWNER(s)  
 Name: Ridgetop Capital, LP  
 Address: 491 Sylvania Drive  
McMurray, PA 15317  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

COAL OWNER OR LESSEE  
 Name: CNX Center %Leatherwood  
 Address: 1000 Consol Energy Drive  
Canonsburg, PA 15317  
 COAL OPERATOR  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

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

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)  
 Name: \*\*\* See Attachment #1  
 Address: \_\_\_\_\_

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

OPERATOR OF ANY NATURAL GAS STORAGE FIELD  
 Name: \_\_\_\_\_  
 Address: \_\_\_\_\_

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Office of Oil and Gas  
Department of Environmental Protection

\*Please attach additional forms if necessary

**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 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

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**Well Location Restrictions**

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

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 57<sup>th</sup> St. SE  
Charleston, WV 25304  
(304) 926-0450

MAR 9 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

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

**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

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Office of Oil and Gas  
WV Dept. of Environmental Protection

WW-6A  
(8-13)

API NO. 47-<sup>103</sup>**4710303096**  
OPERATOR WELL NO. Ridgetop Land Ventures WT  
Well Pad Name: Ridgetop Land Ventures PAD

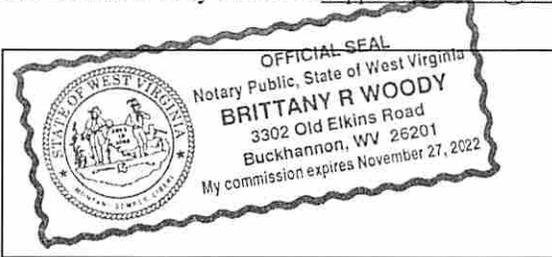
**Notice is hereby given by:**

Well Operator: SWN Production Co., LLC  
Telephone: 832-796-1610  
Email: Dee\_Southall@swn.com

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

**Oil and Gas Privacy Notice:**

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



Subscribed and sworn before me this 10th day of February 2015  
Brittany R Woody Notary Public  
My Commission Expires 11/27/22

Received

MAR 9 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

Attachment # 1

|                              |                         |                  |    |       |      |   |   |                |  |  |  |  |
|------------------------------|-------------------------|------------------|----|-------|------|---|---|----------------|--|--|--|--|
| RIDSETOP CAPITAL LP          | 491 SYLVANIA DR         | MCMURRAY         | PA | 15317 | 1000 | Y | Y | NOT IDENTIFIED |  |  |  |  |
| PITOSCIA ANTHONY A & DAVID T | 911 S ALBRIGHT MCKAY RD | BROOKFIELD       | OH | 44403 | 1000 | N | N | NOT IDENTIFIED |  |  |  |  |
| PITOSCIA WILLIAM R           | 410 HILLS CREEK RD      | BROOKFIELD       | OH | 44403 | 3000 | Y | Y | NOT IDENTIFIED |  |  |  |  |
| LASURE MICHAEL E & VELVA C   | HCR 26160 BOX 232       | NEW MARTINSVILLE | WV | 26155 | 3000 | N | N | NOT IDENTIFIED |  |  |  |  |
|                              |                         |                  |    |       |      |   |   |                |  |  |  |  |
|                              |                         |                  |    |       |      |   |   |                |  |  |  |  |

Office of Oil and Gas  
WV Dept. of Environmental Protection

Received  
MAR 9 2015

4710303096

4710303096

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 Requirement: Notice shall be provided at least TEN (10) days prior to filing a permit application.  
Date of Notice: 02/17/2015 Date Permit Application Filed: 3/6/15

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

HAND DELIVERY  CERTIFIED MAIL RETURN RECEIPT REQUESTED

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

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

Name: Ridgetop Capital, LP  
Address: 491 Sylvania Drive  
McMurray, PA 15317

Name: \_\_\_\_\_  
Address: \_\_\_\_\_

Notice is hereby given:

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

State: West Virginia UTM NAD 83 Easting: 528,013.5  
County: Wetzel Northing: 4,390,722.3  
District: Proctor Public Road Access: Harland Ridge RT 1/19  
Quadrangle: Wileyville Generally used farm name: \_\_\_\_\_  
Watershed: Middle Ohio North

This Notice Shall Include:

Pursuant to West Virginia Code § 22-6A-16(b), this notice shall include the name, address, telephone number, and if available, facsimile number and electronic mail address of the operator and the operator's authorized representative. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Notice is hereby given by:

Well Operator: SWN Production Company, LLC  
Address: PO Box 1300  
Jane Lew, WV 26378  
Telephone: 304-884-1611  
Email: micah\_feather@swn.com  
Facsimile: \_\_\_\_\_

Authorized Representative: Danielle Southall  
Address: PO Box 1300  
Jane Lew, WV 26378  
Telephone: 304-884-1614  
Email: danielle\_southall@swn.com  
Facsimile: \_\_\_\_\_

Oil and Gas Privacy Notice:

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

MAR 9 2015

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

**Notice Time Requirement:** notice shall be provided no later than the filing date of permit application.

**Date of Notice:** 02/07/2015      **Date Permit Application Filed:** 3/6/15

4710303096

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

- CERTIFIED MAIL                                       HAND  
RETURN RECEIPT REQUESTED                                      DELIVERY

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

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

|   |                |
|---|----------------|
| Name: <u>Ridgetop Capital, LP</u>                               | Name: _____    |
| Address: <u>491 Sylvania Drive</u><br><u>McMurray, PA 15317</u> | Address: _____ |

**Notice is hereby given:**

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

|                               |  |                              |  |
|-------------------------------|--|------------------------------|--|
| State: <u>West Virginia</u>   | UTM NAD 83                                       | Easting: <u>528,013.5</u>    |  |
| County: <u>Wetzel</u>         |  | Northing: <u>4,390,722.3</u> |  |
| District: <u>Proctor</u>      | Public Road Access: <u>Harland Ridge RT 1/19</u> |                              |  |
| Quadrangle: <u>Wileyville</u> | Generally used farm name: _____                  |                              |  |
| Watershed: <u>Upper Ohio</u>  |  |                              |  |

**This Notice Shall Include:**

Pursuant to West Virginia Code § 22-6A-16(c), this notice shall include: (1) A copy of this code section; (2) The information required to be provided by **W. Va. Code § 22-6A-10(b)** to a surface owner whose land will be used in conjunction with the drilling of a horizontal well; and (3) A proposed surface use and compensation agreement containing an offer of compensation for damages to the surface affected by oil and gas operations to the extent the damages are compensable under article six-b of this chapter. Additional information related to horizontal drilling may be obtained from the Secretary, at the WV Department of Environmental Protection headquarters, located at 601 57<sup>th</sup> Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting [www.dep.wv.gov/oil-and-gas/pages/default.aspx](http://www.dep.wv.gov/oil-and-gas/pages/default.aspx).

Received

|   |                             |                           |            |
|---|-----------------------------|---------------------------|------------|
| Well Operator: <u>SWN Production Company, LLC</u> | Address: <u>PO Box 1300</u> |                           |            |
| Telephone: <u>304-884-1611</u>                    |                             | <u>Jane Lew, WV 26378</u> | MAR 9 2015 |
| Email: <u>danielle_southall@swn.com</u>           | Facsimile: _____            |                           |            |

**Oil and Gas Privacy Notice:**

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4710303096

WEST VIRGINIA DEPARTMENT OF TRANSPORTATION

**Division of Highways**

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

Earl Ray Tomblin  
Governor

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

February 13, 2015

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

Subject: DOH Permit for the Ridgetop Land Ventures Pad WTZ 1H Well Site, Wetzel County

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2011-0617 to Southwestern Energy for access to the State Road for the well site located off of Wetzel County Route 1/19 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.

Received

MAR 9 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

Very Truly Yours,

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

Cc: Brittany Woody  
Southwestern Energy  
CH, OM, D-6  
File

4710303096

| Supplier Name      | Product Name                       | Product Use               | Chemical Name                           | CAS Number  |
|--------------------|------------------------------------|---------------------------|---|-------------|
| BAKER HUGHES       | ALPHA 1427                         | Biocide                   | Didecyl Dimethyl Ammonium Chloride      | 007173-51-1 |
|                    |                                    |                           | Ethanol                                 | 000064-17-5 |
|                    |                                    |                           | Glutaraldehyde (Pentanediol)            | 000111-30-8 |
|                    |                                    |                           | Quaternary Ammonium Compound            | 068424-85-1 |
|                    |                                    |                           | Water                                   | 007732-18-5 |
|                    | BF-7L                              | Buffer                    | Potassium Carbonate                     | 000584-08-7 |
|                    | ClayCare                           | Clay Stabilizer           | Choline Chloride                        | 000067-48-1 |
|                    |                                    |                           | Water                                   | 007732-18-5 |
|                    | 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 |
|                    | GW-3LDF                            | Gel                       | Petroleum Distillate Blend              | N/A-014     |
|                    |                                    |                           | Polysaccharide Blend                    | N/A-021     |
|                    | SCALETROL 720                      | Scale Inhibitor           | Diethylene Glycol                       | 000111-46-6 |
| Ethylene Glycol    |                                    |                           | 000107-21-1                             |             |
| XLW-32             | Crosslinker                        | Boric Acid                | 010043-35-3                             |             |
|                    |                                    | Methanol (Methyl Alcohol) | 000067-56-1                             |             |
| FRAC TECH SERVICES | 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        |
|                    | FRW-200                            | Friction Reducer          | No Hazardous Components                 | NONE        |
|                    | HVG01 (TURQUOISE-1 BULK)           | Gelling Agent             | Petroleum Distillate Hydrotreated Light | 064742-47-8 |
|                    | KCLS-4                             | Clay Stabilizer           | No Hazardous Components                 | NONE        |
|                    | LTB-1                              | Breaker                   | Ammonium Persulfate                     | N/A         |

Received

MAR 9 2015

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

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MAR 9 2015

Office of Oil and Gas  
WV Dept. of Environmental Protection

4710303096

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

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WV Dept. of Environmental Protection

4710303096



API# 10303053  
API# 10303096  
API# 10303097

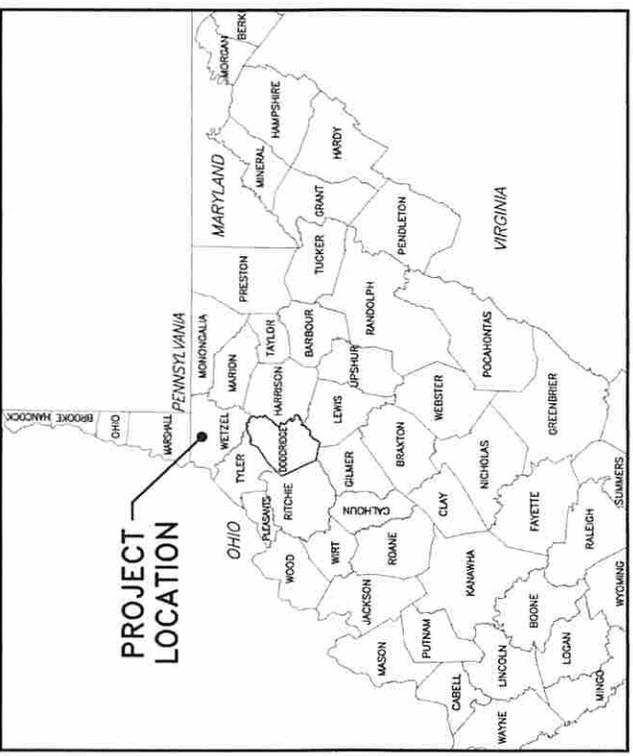
# AS-BUILT SITE PLAN FOR RIDGETOP LAND VENTURES WTZ PROCTOR DISTRICT, WETZEL COUNTY, WEST VIRGINIA



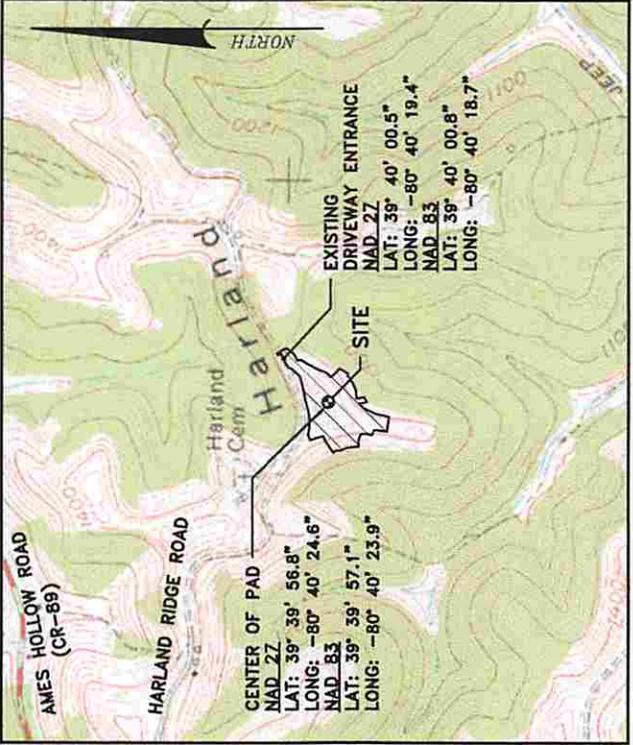
DRAWN BY: JAR  
DATE: 04/15/2015  
SCALE: AS SHOWN  
DWG. NO. 087569007

**BETTEM**  
ENGINEERS - PLANNERS - SURVEYORS - CONSULTING ARCHITECTS  
1515 Stoneham Road, Suite 100, North Canton, OH 44720  
Phone (330) 818-9770 • Fax (330) 818-9780

COVER SHEET  
FOR  
RIDGETOP LAND VENTURES WTZ PAD  
PROCTOR DISTRICT  
WETZEL COUNTY, WV



COUNTY MAP  
N.T.S.



LOCATION MAP  
SCALE - 1"=1000'

**WEST VIRGINIA 811**  
CALL BEFORE YOU DIG!  
Dial 811 or 800.245.4848  
West Virginia's Utility of West Virginia

AT LEAST 48 HOURS, BUT NOT MORE THAN 10 WORKING DAYS (EXCLUDING WEEKENDS AND HOLIDAYS), PRIOR TO THE START OF ANY EXCAVATION, CONTRACTORS INVOLVED IN THESE ACTIVITIES SHALL CONTACT MISS UTILITY OF WEST VIRGINIA AT 811 OR 1-800-245-4848. TICKET #113420309

**SWN**  
Southwestern Energy®  
OPERATOR  
SWN PROCTOR CO., LLC  
P.O. BOX 1300  
JANE LEW, WV 26378  
(832) 798-1814

**WELL API NUMBERS**

|      |               |
|------|---------------|
| 1H   | API 103-02814 |
| 3H   | API 103-02779 |
| 8H   | API 103-02780 |
| 10H  | API 103-02917 |
| 20TH | API 103-02903 |
| 206H | API 103-02886 |

**SITE DATA**

|                            |           |
|----------------------------|-----------|
| TOTAL DISTURBED AREA:      | 8.1 ACRES |
| ROAD DISTURBED AREA:       | 0.2 ACRES |
| PAD DISTURBED ACRES:       | 7.9 ACRES |
| ACCESS ROAD LENGTH:        | 362'      |
| ACCESS ROAD AVERAGE WIDTH: | 21.5'     |
| WELL PAD ELEVATION:        | 1,436.2'  |

**LIST OF DRAWINGS**

|            |                                   |
|------------|-----------------------------------|
| 1 OF 12    | COVER SHEET                       |
| 2-3 OF 12  | EVAUATION ROUTE/ PREVAILING WINDS |
| 4 OF 12    | AS-BUILT SITE PLAN OVERVIEW       |
| 5-8 OF 12  | AS-BUILT SITE PLAN                |
| 9-11 OF 12 | RECLAMATION PLAN                  |
| 12 OF 12   | DETAILS                           |

Electronic version of these plans may be viewed at: Q:\OIL\_GAS\SAY FILES\REVIEWS

4710303096

DWG. NO. 087569007  
SCALE: 1" = 200'  
DATE: 04/15/2015  
DRAWN BY: JAR

RETTEW Associates, Inc.  
5143 Stoneman Road, Suite 100, North Canton, OH 44720  
Phone (330) 818-9770 • Fax (330) 818-9780  
www.retrew.com  
Environmental Consultants

PROCTOR DISTRICT  
WETZEL COUNTY, WV  
RIDGETOP LAND VENTURES WTZ PAD  
FOR  
AS-BUILT SITE PLAN OVERVIEW



**LEGEND**

- New Road
- Grp Pipe
- As Bult 12" Conduit
- Existing 12" Conduit
- Existing 2" Conduit
- Edge of Pavement
- Edge of Road
- Super Str Fence
- Utility Disturbance
- Gas Line
- Power Line

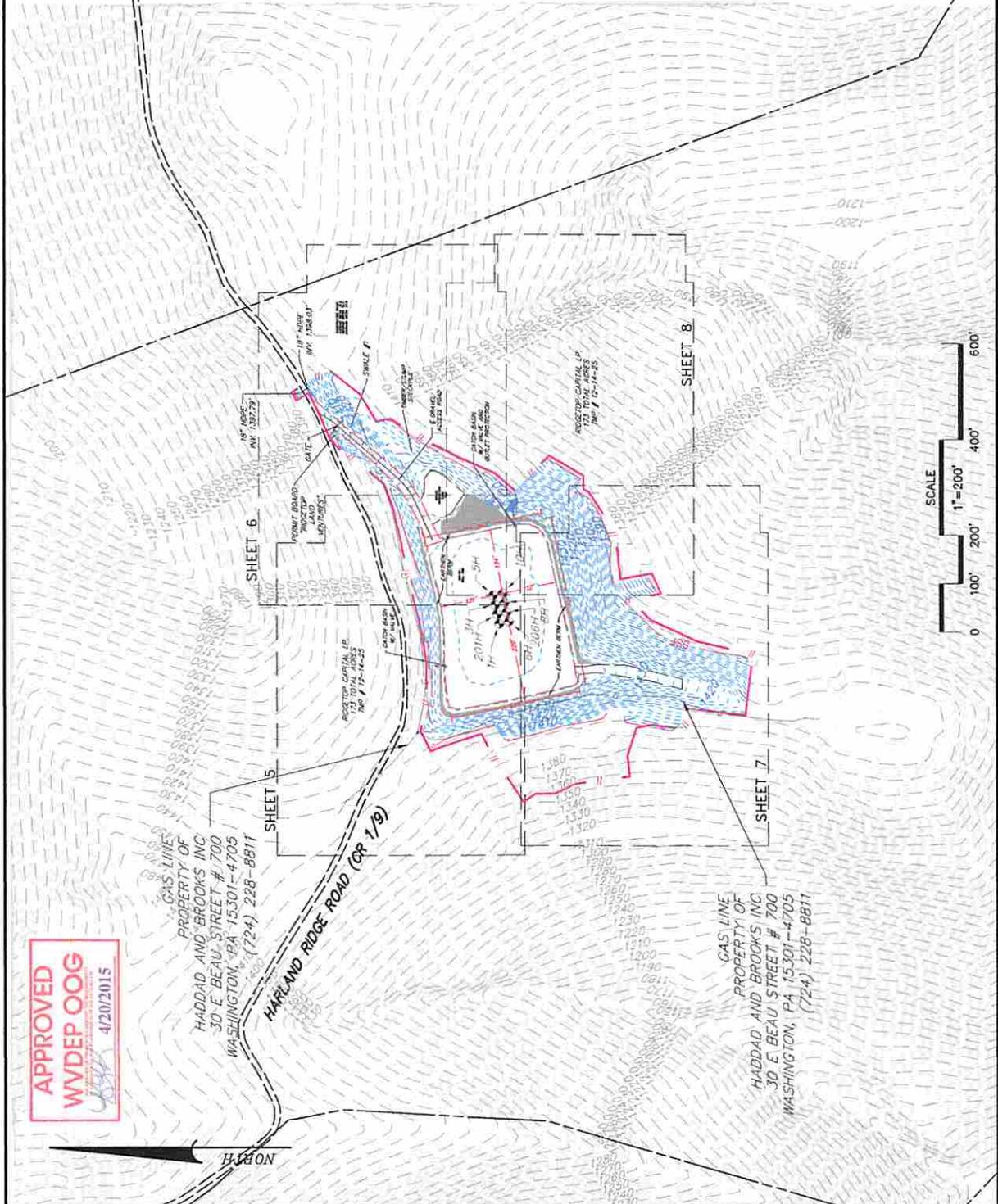
**GENERAL NOTES**

AS-BUILT DATA IS BASED ON A POST-CONSTRUCTION SURVEY CONDUCTED BY RETTEW ASSOCIATES, INC. ON AUGUST 16, 2014.

VERTICAL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.

ADDITIONAL NOTES: SEE SHEET 1/9 FOR GAS LINE AND WATER MAIN LOCATIONS.

SHEET 4 OF 12



APPROVED  
WVDEP OOG  
4/20/2015