



west virginia department of environmental protection

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

Austin Caperton, Cabinet Secretary
www.dep.wv.gov

Thursday, April 19, 2018
WELL WORK PERMIT
Horizontal 6A / New Drill

SWN PRODUCTION COMPANY, LLC
POST OFFICE BOX 12359

SPRING, TX 773914954

Re: Permit approval for TIMMY MINCH OHI 401H
47-069-00266-00-00

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

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

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

James A. Martin
Chief

Operator's Well Number: TIMMY MINCH OHI 401H
Farm Name: TIMMY B. MINCH & AMY L. M
U.S. WELL NUMBER: 47-069-00266-00-00
Horizontal 6A New Drill
Date Issued: 4/19/2018

PERMIT CONDITIONS

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

CONDITIONS

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

PERMIT CONDITIONS

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

4706900266

WW-6B
(04/15)

API NO. 47-069 -
OPERATOR WELL NO. Timmy Minch OHI 401H
Well Pad Name: Timmy Minch PAD

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

1) Well Operator: SWN Production Co., LLC 494512924 069-Ohio 6- Triad 674-Wheeling
Operator ID County District Quadrangle

2) Operator's Well Number: Timmy Minch OHI 401H Well Pad Name: Timmy Minch PAD

3) Farm Name/Surface Owner: Timmy B. Minch & Amy L. Minch Public Road Access: Browns Run

4) Elevation, current ground: 1208' Elevation, proposed post-construction: 1208'

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

(b) If Gas Shallow x Deep _____
Horizontal X

6) Existing Pad: Yes or No Yes

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Expected Pressure(s):
Target Formation- Marcellus, Target Top TVD- 6013' Target Base TVD- 6056', Anticipated Thickness- 43', Associated Pressure- 3619

8) Proposed Total Vertical Depth: 6032'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 17080'

11) Proposed Horizontal Leg Length: 9685.31'

12) Approximate Fresh Water Strata Depths: 306'

13) Method to Determine Fresh Water Depths: offset wells; WR-35

14) Approximate Saltwater Depths: 630'

15) Approximate Coal Seam Depths: 467'

16) Approximate Depth to Possible Void (coal mine, karst, other): abandoned mine 467'

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

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

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18) CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	H-40	48#	506'	506'	484 sx/CTS
Coal	9 5/8"	New	J-55	36#	1854'	1854'	707 sx/CTS
Intermediate	7"	New	HCP-110	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	17080'	17080'	lead 1012sx Tail 2372sx inside interval
Tubing	2 3/8"	New	HCP-110	4.7#	Approx. 6032'	Approx.6032'	
Liners							

C. BLO 4/20/17

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Anticipated Max. Internal 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	1.20/50% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/50% Excess
Tubing	2 3/8"	4.778"	0.190	Approx 8193'	Approx 8193'		
Liners							

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PACKERS

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

WW-6B
(10/14)

4706900266
API NO. 47- 069 -
OPERATOR WELL NO. Timmy Minch OHI 401H
Well Pad Name: Timmy Minch PAD

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

Drill and stimulate any potential zones between and including the Benson to Marcellus. **If we should encounter a void place basket above and below void area- balance cement to bottom of void and grout from basket to surface or run external casing packer/cementing stage tool above void interval and perform 2 stage cementing operation dependent upon depth of void. Run casing not less than 20' below void nor more than 75' 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 @ 100 barrels a minute.

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 13

22) Area to be disturbed for well pad only, less access road (acres): 4.8

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.

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

See Attachment ***

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25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

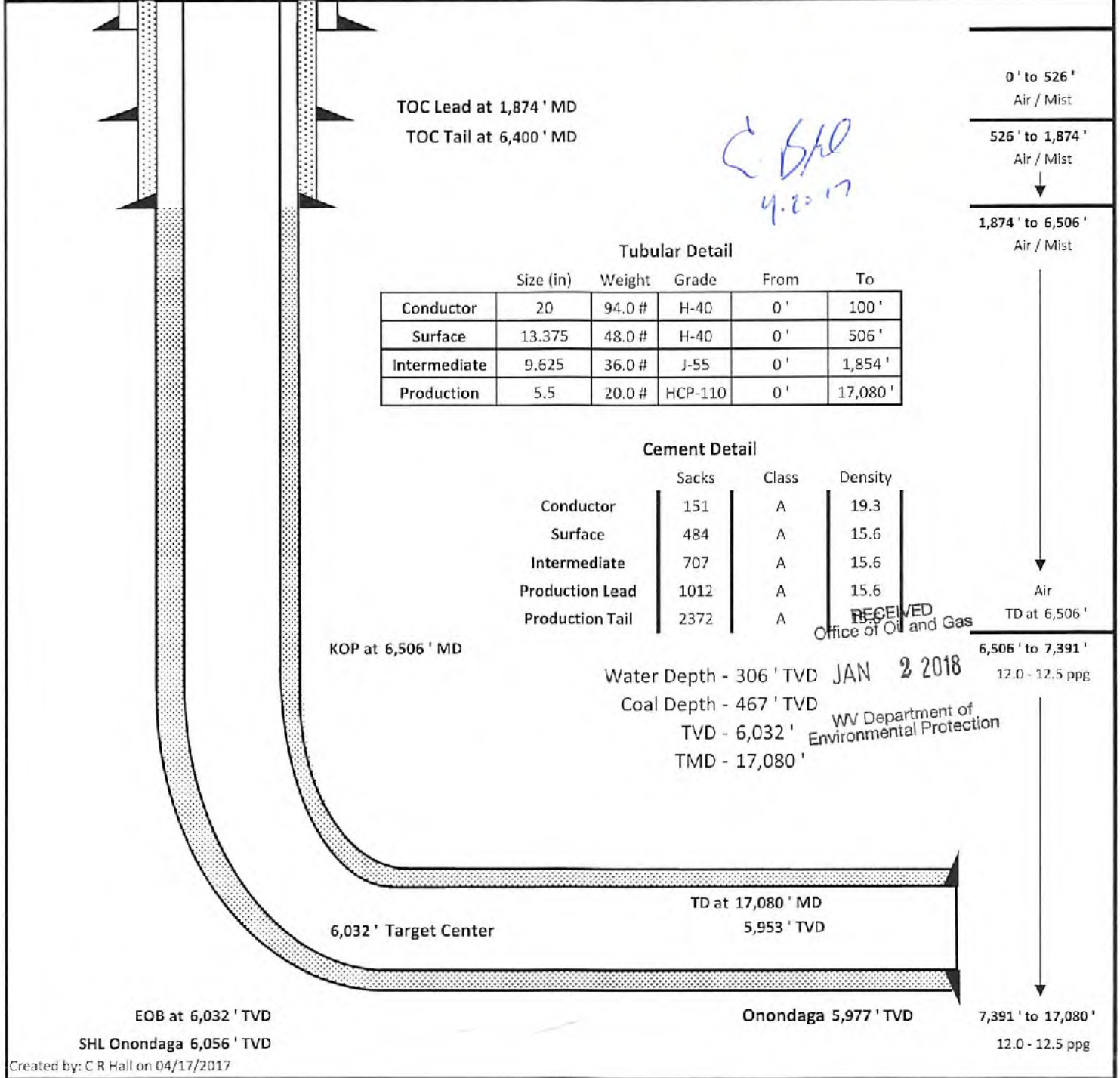
Schlumberger Cement Additives

	Product Name	Product Use	Chemical Name	CAS Number
Surface	S001	accelerator	calcium chloride	10043-52-4
Intermediate	S001	accelerator	calcium chloride	10043-52-4
Kick Off Plug	D080	dispersant	sodium polynaphthalene sulfonate	9008-63-3
	D801	retarder	aromatic polymer derivative	proprietary
	D047	antifoam	polypropylene glycol	25322-69-4
Production-Lead	D167	fluid loss	aliphatic amide polymer	proprietary
	D154	extender	non-crystalline silica	7631-86-9
	D400	gas migration	boric acid	10043-35-3
	D046	antifoam	polypropylene glycol	25322-69-4
			fullers earth (attapulgitite)	8031-18-3
	D201	retarder	chrystalline silica	14808-60-7
			metal oxide	proprietary
	D202	dispersant	sulphonated synthetic polymer	proprietary
formaldehyde (impurity)			proprietary	
Production-Tail	D046	antifoam	polypropylene glycol	25322-69-4
			fullers earth (attapulgitite)	8031-18-3
	D167	fluid loss	aliphatic amide polymer	proprietary
	D065	dispersant	sodium polynaphthalene sulfonate	9008-63-3
			sodium sulfate	7757-82-6
	D201	retarder	chrystalline silica	14808-60-7
metal oxide			proprietary	
D153	anti-settling	chrystalline silica	14808-60-7	

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Southwestern Energy Company	Proposed Drilling Program
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Well: TIMMY MINCH OHI 401 Field: PANHANDLE FIELD County: OHIO SHL: 40.0853 Latitude -80.6463 Longitude BHL: 40.1073 Latitude -80.6726 Longitude KB Elev: 1,234 ft MSL	Re-entry Rig: TBD Prospect: PANHANDLE State: WV GL Elev: 1,208 ft MSL
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4700000566

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Office of Oil and Gas
JAN 3 2018
Environmental Protection
Department of

April 25, 2017

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

RE: Proposed New Well Timmy Minch OHI 401H

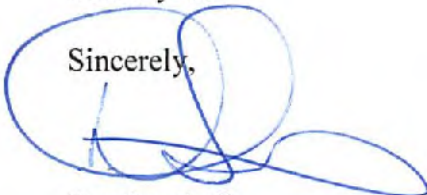
Dear Ms. Adkins

SWN has reviewed the area of the above mentioned well and discovered no shallow wells within 500' of the lateral. This well is situated on the Minch's property, in Triadelphia 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
Senior Regulatory Analyst
Southwestern Energy Production Company, LLC

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WW-9
(4/16)

API Number 47 - 069 **4706900266**
Operator's Well No. Timmy Minch OHI 401H

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) Browns Run of Peters Run of Little Wheeling Creek Quadrangle Wheeling

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: _____

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 34-156-22403, 34-059-24067, 34-119-28776, 34-167-23802, 34-155-23755, 34-121-23895, 34-155-21893)
- 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. For drill to KOP, fluid drill with SOBDM from KOP to TD

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

Additives to be used in drilling medium? Attachment 3A

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? Meadowfill SWF- 1032, Short Creek SWF-1034, Carbon Limestone MSWL018781, Wetzel County 1021 Arden Landfill 10072, Apex Sanitary Landfill 06-08438, Brooke Co SWF-1013, Valley 100280

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

I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the 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 Senior Regulatory Analyst

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Subscribed and sworn before me this 9th day of November, 2017

Brittany R Woody

My commission expires 11/27/22



SWN.Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 13 Prevegetation pH _____

Lime as determined by pH test min.2 Tons/acre or to correct to pH 4.8

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

Seed Type lbs/acre

Attachment 3B

Attach:

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

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: _____

C. 1580 11.9.17

Comments: _____

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WV Department of
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Title: Oil & Gas Inspector

Date: 11.9.17

Field Reviewed? Yes No

4706900266

Attachment 3A
Drilling Mediums

Synthetic Oil

Brine

Barite

Calcium Chloride

Lime

Organophilic Bentonite

Primary and Secondary Emulsifiers

Gilsonite

Calcium Carbonate

Friction Reducers

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WVD Seeding Specification

$\frac{R^2}{A} \rightarrow V^+$

To Order Seed contact Lyndsi Eddy Filippo office 570-996-4271 cell 501-269-5451 lyndsi_eddy@swn.com (please allow 7 to 10 days for delivery)

NON-ORGANIC PROPERTIES	
Seed Mixture: ROW Mix	SWN Supplied
Orchardgrass	40%
Timothy	15%
Annual Ryegrass	15%
Brown Top Millet	5%
Red Top	5%
Medium Red Clover	5%
White Clover	5%
Birdsfoot Trefoil	5%
Rough Bluegrass	5%
All legumes are inoculated at 5x normal rate	
Apply @ 100lbs per acre April 16th- Oct. 14th	
Apply @ 200lbs per acre Oct. 15th- April 15th PLUS 50lbs per acre of Winter Wheat	

SOIL AMENDMENTS	
10-20-20 Fertilizer	*Apply @ 500lbs per Acre
Pelletized Lime	Apply @ 2 Tons per Acre
*unless otherwise dictated by soil test results	

Seeding Calculation Information:

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

Synopsis:

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

Special Considerations:

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

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

WETLANDS (delineated as jurisdictional wetlands)

Seed Mixture: Wetland Mix	SWN Supplied
VA Wild Ryegrass	20%
Annual Ryegrass	20%
Fowl Bluegrass	20%
Cosmos 'Sensation'	10%
Redtop	5%
Golden Tickseed	5%
Maryland Senna	5%
Showy Tickseed	5%
Fox Sedge	2.5%
Soft Rush	2.5%
Woolgrass	2.5%
Swamp Verbena	2.5%
Apply @ 25lbs per acre April 16th- Oct. 14th	
Apply @ 50lbs per acre Oct. 15th- April 15th	
NO FERTILIZER OR LIME INSIDE WETLAND LIMITS	

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4706900266

4706900266

MARCELLUS WELL DRILLING PROCEDURES AND WELL SITE SAFETY PLAN



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

API NO. 47-XXX-XXXXX
WELL NAME: Timmy Minch OHI 401H
Wheeling QUAD
Triadelphia DISTRICT
Ohio COUNTY, WEST VIRGINIA

Submitted by:


Dee Southall


Date: 11/1/2017

Senior Regulatory

Title: Analyst

SWN Production Co., LLC

Approved by:


Title: Oil & Gas Inspector

Date: 11.9.17

Approved by:

Title: _____

Date: _____

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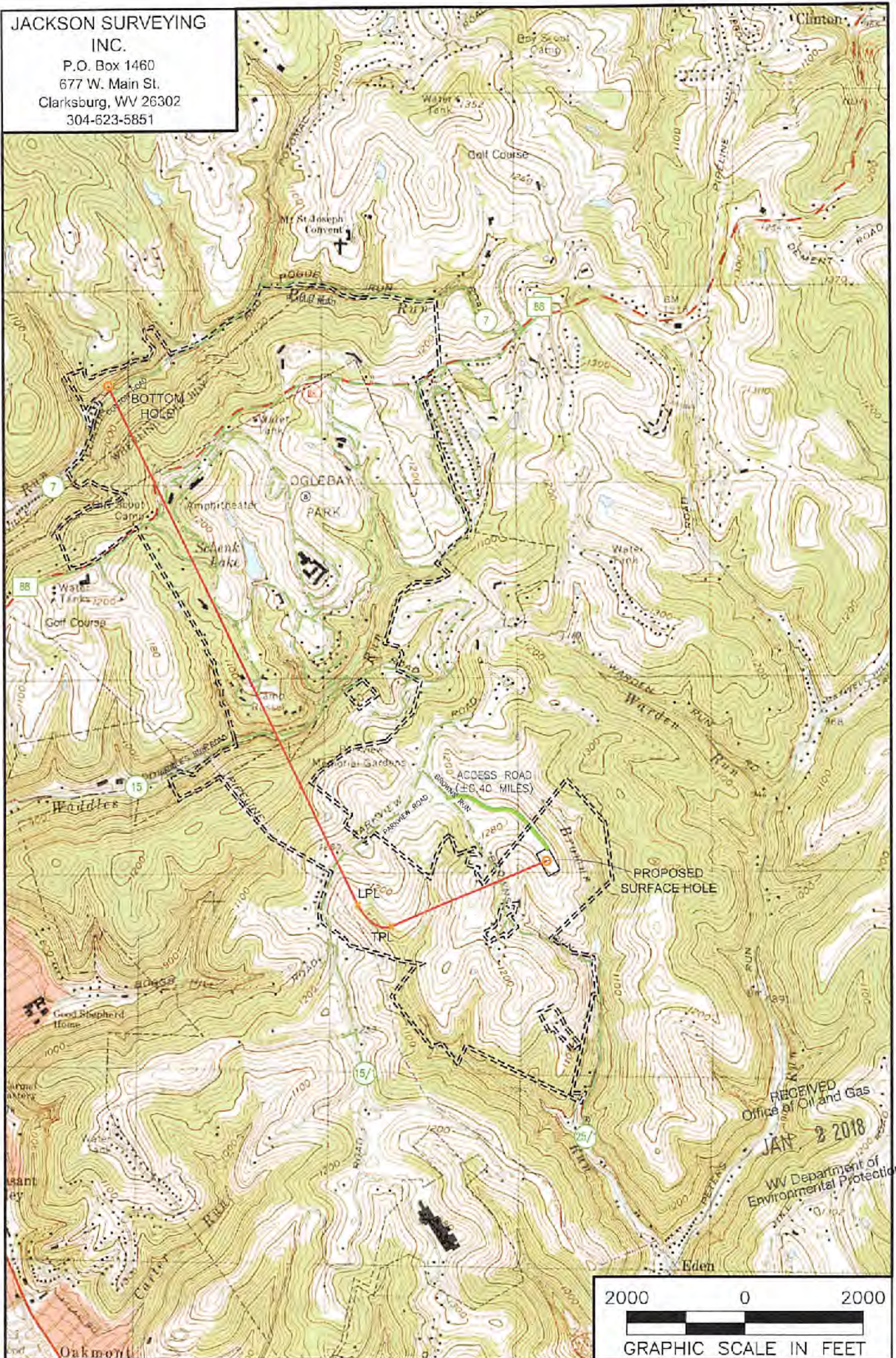
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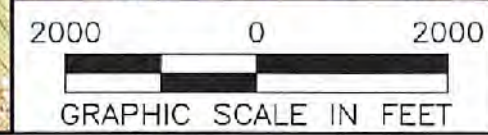
JACKSON SURVEYING

INC.

P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851



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NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL x LANDING POINT LOCATION
- FLOOD FLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

WELL OPERATOR:
SWN PRODUCTION COMPANY, LLC

ADDRESS:
P.O. BOX 1300 JANE LEW, WV 26378

SURFACE OWNER:
TIMMY B. MINCH & AMY L. MINCH

WELL (FARM) NAME:
TIMMY MINCH OHI

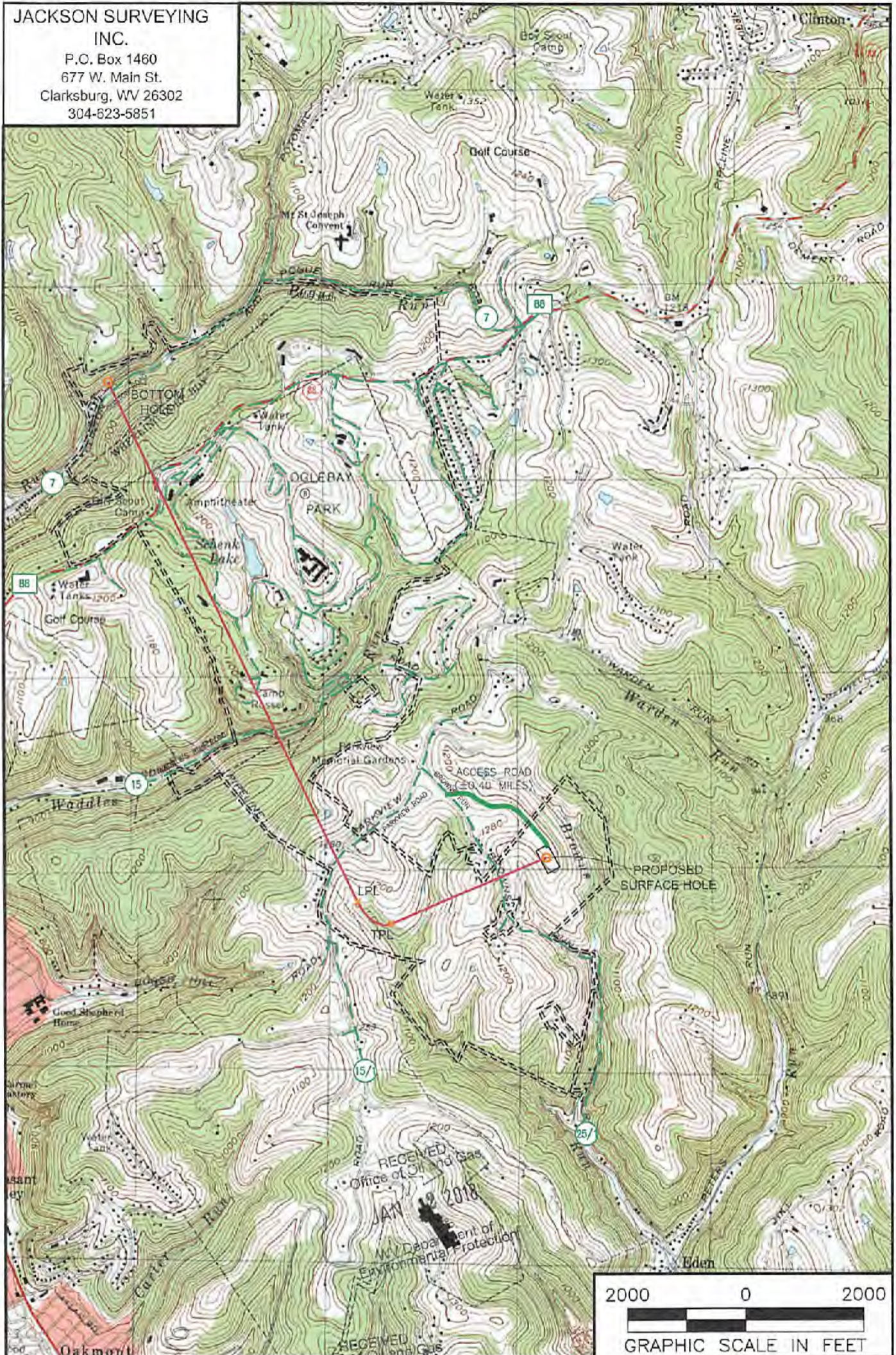
WELL # 401H SERIAL #

COUNTY - CODE
OHIO - 069

DISTRICT;
TRIADDELPHIA

USGS 7 1/2 QUADRANGLE MAP NAME
WHEELING, WV

**JACKSON SURVEYING
INC.**
P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-823-5851



NOTES ON SURVEY
1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
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LEGEND:
 PROPOSED SURFACE HOLE / BOTTOM HOLE
 EXISTING / PRODUCING WELLHEAD
 LPL* LANDING POINT LOCATION
 FLOOD PLAN
 ACCESS ROAD
 PUBLIC ROAD
 ACCESS ROAD TO PREV. SITE
 LEASE BOUNDARY
 PROPOSED PATH

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: TIMMY MINCH OHI	WELL # 401H	SERIAL #
ADDRESS: P.O. BOX 1300 JANE LEW, WV 26378	COUNTY - CODE OHIO - 069	DISTRICT; TRIADELPHIA	
SURFACE OWNER: TIMMY B. MINCH & AMY L. MINCH	USGS 7 1/2 QUADRANGLE MAP NAME WHEELING, WV		

Latitude: 40°07'30"

SURFACE HOLE 5959'

BOTTOM HOLE 1673'

JACKSON SURVEYING INC.

P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

Table with 2 columns: Location Name and UTM Coordinates (NORTHING, EASTING). Includes Surface Hole, Turning Point, Landing Point, and Bottom Hole locations.

GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US F

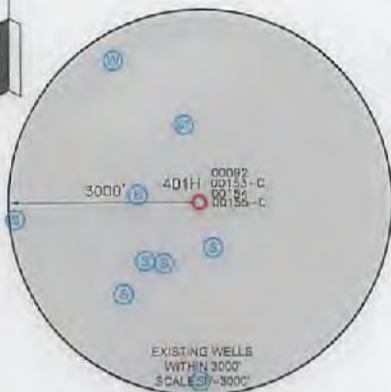


Table with 5 columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Lists survey lines L1 through L4 with their respective bearings, distances, and descriptions.

WELL RESTRICTIONS

- List of 6 restrictions regarding well placement, agriculture, streams, and ground intake within specific distances.

NOTES ON SURVEY

- Notes regarding survey boundaries, information accuracy, and certification of the survey.

P.S. 708

Signature of David L. Jackson



Company information for SWN Production Company, LLC, including logo and name.

West Virginia State seal and address for WVDEP Office of Oil & Gas, Charleston, WV 25034.

Table with 2 columns: Property/Well Information and Accuracy. Includes minimum degree of accuracy (1/200) and proven source of elevation (Survey Grade GPS).

Table with 2 columns: Operator and Well Information. Includes operator name (Timmy Minch Ohi), well number (401H), and API well numbers (47, 069, 00266).

Well type and completion details form. Includes fields for Well Type (Oil, Gas, etc.), Watershed, District, Surface Owner, and Target Formation (Marcellus).

Well operator and agent information form. Includes Well Operator (SWN Production Company, LLC) and Designated Agent (Dee Southall).

Legend and Revisions table. Legend includes symbols for proposed surface hole, existing wellhead, landing point, etc. Revisions table lists 6A1 revisions from 12-12-2017.

**JACKSON SURVEYING
INC.**

P.O. Box 1460
677 W. Main St.
Clarksburg, WV 26302
304-623-5851

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	TIMMY B. MINCH & AMY L. MINCH (S/R)	06-T2-18	254.38
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
2	CHARLES MONFRADI & DOLORES MONFRADI (S)	04-R17-58	29.84
3	RICHARD P. CARTER (S)	04-R17-23.3	63.27
4	THOMAS J. JOHN & MICHELLE N. JOHN (S)	04-R17-20	1.895
5	GEORGE ROBERT BENEKE, NADA E. BENEKE & LISA BENEKE BURRIS (S)	04-R17-19	24.3
6	CORNERSTONE FAMILY SERVICES OF WEST VIRGINIA, LLC (S)	04-R17-B	72.243
7	CACS, L.P. (S)	10-W27A-01	18.8
8	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION, DIVISION OF HIGHWAYS (S)	WADDELL'S RUN ROAD	2.309
9	WHEELING PARK COMMISSION AND THE CITY OF WHEELING (S)	04-R14-15	1067.71
10	ELIAS E. JOSEPH & ELIZABETH A. JOSEPH (S)	04-R14A-53	28.92

ADJOINING OWNERS TABLE				ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES	TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	JON BARRY & JAYMIE BARRY	04-R17D-3	0.91	XX	SISTERS OF ST. JOSEPH OF WHEELING, INC.	04-R11-20	39.269
B	V.J. SOVINSKI & H.G. SOVINSKI	04-R17D-28	0.73	YY	PARKS SYSTEM TRUST FUND OF WHEELING	04-R11-21.3	23.8
C	J.G. DEEDS & M.K. GARRISON	04-R17D-30	0.37	ZZ	WHEELING PARK COMMISSION	04-R14-91	18.0
D	MICHAEL DOUGLAS GATES	04-R17D-1	93.53	AAA	WHEELING PARK COMMISSION	04-R14-20.4	7.368
E	RONALD J. POCKL	06-T2-20.1	4.92	BBB	WHEELING PARK COMMISSION	04-R14-15.2	11.0
F	DANE C. WOJCHOWSKI	06-T2-20	4.08	CCC	WILLIAM J. HOSFELT & P.K. HOSFELT	10-W12D-2	0.3350
G	SHAWN A. HODGSON & LESLIE G. HODGSON	04-R17-62	0.53	DDD	CHARLES M. RANSOM	10-W12D-1	0.3696
H	DANNY MINCH & GINA MINCH	04-R17-61	1.29	EEE	ROBERT A. GALBRAITH & PATRICIA GALBRAITH	10-W14D-1	0.4885
I	HOWARD L. MINCH & BEVERLY G. MINCH	04-R17-63	0.81	FFF	DOROTHY SATTERFIELD	10-W14D-2	0.4672
J	JUNIPER LODGE, INC.	06-T2-19	2.35	GGG	ROBERT A. TUCKER & R. TUCKER	10-W14D-3	0.3109
K	WILLIAM A. ORUM & CYNTHIA E. ORUM	06-T2-19.1	6.0	HHH	BETTY J. MCKINLEY	10-W14D-4	0.258
L	WILLIAM A. ORUM & CYNTHIA ORUM	06-T2-178	40.0	III	CAROLYN MORTELL	10-W14D-5	0.275
M	WHEELING PARK COMMISSION	06-T7-95	74.405	JJJ	RAYMOND C. GEORGE & E.A. GEORGE	10-W14D-6	0.2868
N	LUANN DANEHART & ARTHUR W. DANEHART, JR.	06-T2-16.2	11.155	KKK	DAVID V. RIGGS & KERRIE L. RIGGS	10-W14D-7	0.3056
O	GLORIA J. KALB	06-T2-15.3	8.425	LLL	TONY A. ROBINSON	10-W14D-8	0.3159
P	GLORIA J. KALB	06-T2-14	3.46	MMM	JASON TREUMAN	10-W14D-9	0.3023
Q	RICHARD P. CARTER & KIM M. CARTER	04-R17-23.1	0.838	NNN	MARTIN M. KUHAR & D.J. KUHAR	10-W14D-10	0.3053
R	SHASHI R. URVAL & MONISH URVAL	06-T2J-1	0.5498	OOO	KURT LATOUR & JUDY C. LATOUR	10-W14D-11	0.3030
S	MATTHEW GOMPERS & VICTORIA GOMPERS	04-R17-10.2	2.0	PPP	PAULA CRAGO PEARCE	10-W14D-12	0.3206
T	HARRY S. FISHER & BARBARA J. FISHER	04-R17-11.1	2.85	QQQ	HENRY R. KUHENS & M.L. KUHENS	10-W14D-13	0.3581
U	HARRY S. FISHER & BARBARA J. FISHER	04-R17-11	2.87	RRR	KATHLEEN SAFCSAK	10-W14D-14	0.3673
V	CARL D. BURKLAND III & JOLIN H. BURKLAND	04-R17-12	2.83	SSS	DAVID D. DOEPKEN & CHRISTINE B. DOEPKEN	10-W14D-15	0.3535
W	CARL D. BURKLAND III & JOLIN H. BURKLAND	04-R17-13.1	0.28	TTT	MICHAEL F. DUPLAGA & MARISSA A. YOHO	10-W14D-16	0.345
X	GUNTHER F. HEMPELMAN & M.E. HEMPELMAN	04-R17-13	1.9235	UUU	CHARLES NEUMAN & B.J. WOTRING	10-W14D-17	0.3444
Y	COLUMBIA GAS TRANSMISSION CORP.	04-R17-15	0.0399	VVV	MARK K. YOUNG & SAMANTHA YOUNG	10-W14D-18	0.3421
Z	GUNTHER F. HEMPELMAN & M.E. HEMPELMAN	04-R17-13	1.9235	WWW	DANIEL S. PETRI & D. PETRI	10-W14D-19	0.366
AA	JEREMY A. SCHREIBER	04-R17-16	2.48	XXX	ROBERT L. WATSON & J.T. WATSON	10-W17D-2	0.352
BB	CRAIG V. OLEARY & EMMA L. OLEARY	04-R17-17	3.49	YYY	STEPHEN L. HANNA & C.H. HANNA	10-W17D-3	0.4231
CC	PEARLS OF PROPERTY LLC, ET AL	10-W27-06	4.31	ZZZ	DAVID W. MILLER & PETER J. JUNKERSFELD	10-W17D-4	0.67
DD	WHEELING COUNTRY CLUB INC.	04-R14-14	221.232	AAAA	DAVID W. MILLER & PETER J. JUNKERSFELD	10-W17D-5	0.43
EE	JEFFREY S. SCHULTZ	04-R14-13	4.09	BBBB	JAMES C. MCBANE TRUSTEE	10-W17D-6	0.33
FF	WHEELING PARK COMMISSION	10-W17A-01	17.24	CCCC	SAMUEL J. LAPP II & HEATHER A. LAPP	04-R14-50.1	1.93
GG	JOHN M. PELUCHEFFE & C.L. PELUCHEFFE	04-R14J-01	0.772	DDDD	KATHLEEN M. GOMPERS	04-R14-50.3	1.772
HH	EDWARD P. POLACK	04-R14-95	56.335	EEEE	KATHLEEN M. GOMPERS	04-R14-50.2	5.371
II	THOMAS E. ALLEN	04-R14E-04	0.4677	FFFF	HARIETTE E. FRIEND & L. EDWARD FRIEND II	04-R14-51	11.31
JJ	FRANK A. DUSCH (LIFE)	04-R14E-01	2.9472	GGGG	EDWARD T. HITCHMAN III & HELEN G. HITCHMAN	04-R14-53	1.30
KK	ELIAS EDW. JOSEPH	04-R14E-05	1.5092	HHHH	EDWARD T. HITCHMAN III & HELEN G. HITCHMAN	04-R14-67	1.75
LL	ELIAS E. JOSEPH - 1999	04-R14E-06	0.9266	IIII	WENDY K. ELSWICK	04-R17-59.1	1.438
MM	ELIAS E. JOSEPH	04-R14E-6.1	0.6401	JJJJ	DONALD R. EDDY & M.M. EDDY	04-R17-59.2	2.295
NN	ELIAS E. JOSEPH	04-R14E-07	1.0216	KKKK	ERIN M. THALMAN	04-R17-8.1	3.237
OO	RICHARD E. THOMPSON & N.A. THOMPSON	04-R14E-08	2.3453	LLLL	JAMES R. NULL	04-R17-24	8.79
PP	RICHARD E. THOMPSON & N.A. THOMPSON	04-R14A-53.3	0.4709	MMMM	EARL P. HUFFNER	04-R17-24.1	1.0
QQ	MARGARET J. AISQUITH	04-R14A-199	0.1268	NNNN	JOAN L. SCHENERLEIN	04-R17-58.5	1.0
RR	ROBERT D. KENNAN & DELLAH L. KENNAN	04-R14A-53.7	6.2365	OOOO	REX D. LASURE & N.A. ENDRIZZI	04-R17-58.4	1.0
SS	JAMES A. SCHMITT	04-R14-4.6	4.75	PPPP	REX D. LASURE & N.A. ENDRIZZI	04-R17-58.3	0.75
TT	JAMES A. SCHMITT	04-R14-4.5	4.752	QQQQ	JAMES HOHMAN & M. HOHMAN	04-R17-58.2	0.75
UU	WHITMAR HILL II HOMEOWNERS ASSOCIATION, INC.	04-R11-2.3	2.33	RRRR	TIMMY B. MINCH & AMY L. MINCH	04-R17-58.1	1.0
VV	JOSEPH M. MELIA & J.M. MELIA	04-R14-6.1	4.68	SSSS	ROBERT WILLIAM MINCH, JR & BARBARA JEAN MINCH	04-R17-57.2	6.29
WW	PAMELA SURE HARROLD C/O GC&P ANIMAL HOSPITAL, INC	04-R14-6	8.93	TTTT	ROBERT WILLIAM MINCH, JR. & HERBERT PAUL MINCH	04-R17-57	31.33
				UUUU	GEORGE O. NUTTING	04-R17-57.1	6.29

REVISIONS: A 6A1 REVISIONS 12-12-2017	COMPANY: SWN Production Company, LLC	SWN ^{R₂} ^{V₂} Production Company™
	OPERATOR'S TIMMY MINCH OHI	DATE: 07-26-2017
	WELL #: 401H	DRAWN BY: N. MANO
DISTRICT: TRIADELPHIA	COUNTY: OHIO	SCALE:
	STATE: WV	DRAWING NO:
		WELL LOCATION PLAT 2

WW-6A1
(5/13)

Operator's Well No. Timmy Minch OHI 401H

**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:

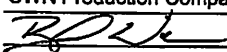
Lease Name or Number	Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
See Exhibit				

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

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

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

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

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

Page 1 of _____

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Office of Oil and Gas
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WV Department of
Environmental Protection

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 RECEIVED
 West Virginia Oil and Gas
 JAN 2 2018
 Department of Environmental Protection

Exhibit "A"
 Attached to and made a part of the State of West Virginia Oil and Gas Permit Form, WW-6A1, by SWN Production Company, LLC, Operator
 Timmy Minch OHI 401H
 Ohio County, West Virginia

#	TAX ID	SURFACE OWNER	DEEDED ACREAGE	LEASE #	LESSOR	LESSEE	ROYALTY	BK/PG
1	06-T2-18	Timmy B. Minch and Amy L. Minch	254.38	730040-000	Howard L. Minch and Beverly G. Minch, his wife	Great Lakes Energy Partners, L.L.C. Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	12.5%	776/13 808/418 883/192
2	04-R17-58	Charles Monfradi and Dolores Monfradi	29.84	731296-000	Charles Monfradi and Dolores Monfradi, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	813/584 884/457
3	04-R17-23.3	Richard P. Carter	63.27	737195-000	Harlan P. Carter III, a married man dealing in his sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	836/100 884/777
4	04-R17-20	Thomas J. John and Michelle N. John	1.695	Pending	John C. Wharry and Virginia M. Wharry a/k/a Virginia W. Wharry, husband and wife	SWN Production Company, LLC	17%	925/366
5	04-R17-19	George Robert Beneke, Nada E. Beneke, and Lisa Beneke Burris	24.3	729630-001	Lisa Beneke Burris, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	811/501 884/157
5	04-R17-19	George Robert Beneke, Nada E. Beneke, and Lisa Beneke Burris	24.3	729630-002	Nada E. Beneke, a single woman	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	811/496 884/157
5	04-R17-19	George Robert Beneke, Nada E. Beneke, and Lisa Beneke Burris	24.3	729630-003	George Robert Beneke, divorced	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	811/407 884/157
6	04-R17-8	Cornerstone Family Services of West Virginia LLC	72.243	729385-000	Cornerstone Family Services of West Virginia LLC	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	814/586 884/121
7	10-W27A-1	GACS, L.P.	16.8	738566-000	Anna M. Govindan, a married woman dealing in her sole and separate property	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	846/125 885/212
8	Waddell's Run Road	West Virginia Department of Transportation, Division of Highways	2.309	Pending	West Virginia Department of Transportation, Division of Highways, of Right of Way Division	SWN Production Company, LLC	20%	928/791
9	04-R14-15	Wheeling Parks Commission and the City of Wheeling	1067.71	726299-000	Wheeling Parks Commission, a Public Corporation and Governmental Subdivision of the City of Wheeling and the City of Wheeling, a Municipal Corporation	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	14%	798/734 885/776
10	04-R14A-53	Elias E. Joseph and Elizabeth A. Joseph	26.92	730439-000	Elias E. Joseph and Elizabeth A. Joseph, husband and wife	Chesapeake Appalachia, L.L.C. SWN Production Company, LLC	18%	816/109 884/373



SWN Production Company, LLC
179 Innovation Drive
Jane Lew, WV 26378
Tel: 304 884 1610
Fax: 304 471 2497
www.swn.com

December 22, 2017

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

RE: SWN's proposed New Well: Timmy Minch OHI 401H in Ohio County, West Virginia, Drilling under Clinton Road, Oglebay Drive, Waddell's Road & Parkview 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 Clinton Road, Oglebay Drive, Waddell's Road & Parkview 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,

A handwritten signature in black ink, appearing to read "B. Wilson".

Bradley Wilson
Landman
SWN Production Company, LLC
PO Box 12359
Spring, TX 77391-2359

A logo consisting of the letters "R", "V", and "A" in a stylized, red, handwritten font. The "R" and "V" are connected, and the "A" is positioned below them.

The Right People doing the Right Things,
wisely investing the cash flow from our
underlying Assets, will create Value.[®]

RECEIVED
Office of Oil and Gas

JAN 2 2018

WV Department of
Environmental Protection

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

Date of Notice Certification: 12/27/17

API No. 47- 069 - _____
Operator's Well No. Timmy Minch OHI 401H
Well Pad Name: Timmy Minch PAD

Notice has been given:

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

State:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>530153.319</u>
County:	<u>069-Ohio</u>	UTM NAD 83 Northing:	<u>4437286.778</u>
District:	<u>Triadelphia</u>	Public Road Access:	<u>Browns Run</u>
Quadrangle:	<u>Wheeling</u>	Generally used farm name:	<u>Timmy Minch</u>
Watershed:	<u>Browns Run of Peters Run of Little Wheeling Creek</u>		

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

Pursuant to West Virginia Code § 22-6A, the Operator has attached proof to this Notice Certification that the Operator has properly served the required parties with the following: *PLEASE CHECK ALL THAT APPLY <input type="checkbox"/> 1. NOTICE OF SEISMIC ACTIVITY or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED <input type="checkbox"/> 2. NOTICE OF ENTRY FOR PLAT SURVEY or <input checked="" type="checkbox"/> NO PLAT SURVEY WAS CONDUCTED <input checked="" type="checkbox"/> 3. NOTICE OF INTENT TO DRILL or <input type="checkbox"/> NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or <input type="checkbox"/> WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH) <input checked="" type="checkbox"/> 4. NOTICE OF PLANNED OPERATION <input checked="" type="checkbox"/> 5. PUBLIC NOTICE <input checked="" type="checkbox"/> 6. NOTICE OF APPLICATION		<p align="center">OOG OFFICE USE ONLY</p> <input type="checkbox"/> RECEIVED/ NOT REQUIRED <input type="checkbox"/> RECEIVED <input checked="" type="checkbox"/> RECEIVED/ NOT REQUIRED RECEIVED Office of Oil and Gas <input checked="" type="checkbox"/> RECEIVED JAN 2 2018 <input checked="" type="checkbox"/> RECEIVED WV Department of Environmental Protection <input checked="" type="checkbox"/> RECEIVED
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Required Attachments:

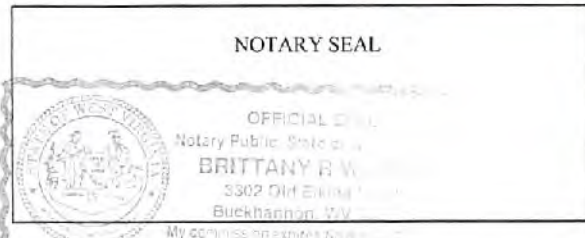
The Operator shall attach to this Notice Certification Form all Notice Forms and Certifications of Notice that have been provided to the required parties and/or any associated written waivers. For the Public Notice, the operator shall attach a copy of the Class II Legal Advertisement with publication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

Certification of Notice is hereby given:

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

Well Operator: SWN Production Co., LLC
By: Dee Southall
Its: Senior Regulatory Analyst
Telephone: 304-884-1614

Address: P.O. Box 1300
Jane Lew, WV 26378
Facsimile: 304-884-1690
Email: Dee_Southall@swn.com



Subscribed and sworn before me this 8th day of November 2017
Brittany R. Woody Notary Public
My Commission Expires 11/27/18

Oil and Gas Privacy Notice:

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

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Office of Oil and Gas
JAN 2 2018
WV Department of
Environmental Protection

WW-6A
(9-13)

API NO. 47- 069 -
OPERATOR WELL NO. Timmy Minch OHI 401H
Well Pad Name: Timmy Minch PAD

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

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

Date of Notice: 12/27/17 Date Permit Application Filed: 12/27/17

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: Timmy B. & Amy L. Minch
Address: 260 Browns Run Road
Wheeling, WV 26003
Name: _____
Address: _____

COAL OWNER OR LESSEE
Name: H3, LLC
Address: Rt. 1 Box 805
Milton, WV 25541

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: _____

*Please attach additional forms if necessary

WW-6A
(9-13)

API NO. 47- 069 -
OPERATOR WELL NO. Timmy Minch OHI 401H
Well Pad Name: Timmy Minch PAD

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

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

Date of Notice: 12/27/17 Date Permit Application Filed: 12/27/17

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: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Road and/or Other Disturbance)

Name: _____
Address: _____

Name: _____
Address: _____

SURFACE OWNER(s) (Impoundments or Pits)

Name: _____
Address: _____

COAL OWNER OR LESSEE

Name: Alliance Resources GP, LLC % Elizabeth Acost
Address: 2596 Bettle Run Road
Triadelphia, WV 26059

COAL OPERATOR

Name: _____
Address: _____

SURFACE OWNER OF WATER WELL AND/OR WATER PURVEYOR(s)

Name: See Attachment #1
Address: _____

OPERATOR OF ANY NATURAL GAS STORAGE FIELD

Name: _____
Address: _____

*Please attach additional forms if necessary

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(8-13)

JAN 2 2018

WV Department of
Environmental Protection

API NO. 47- 099 -

OPERATOR WELL NO. Timmy Minch CH 401-HWell Pad Name: Timmy Minch 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 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

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(8-13)

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API NO. 47-069
OPERATOR WELL NO. Timmy Minch OHI 401H
Well Pad Name: Timmy Minch 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

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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.

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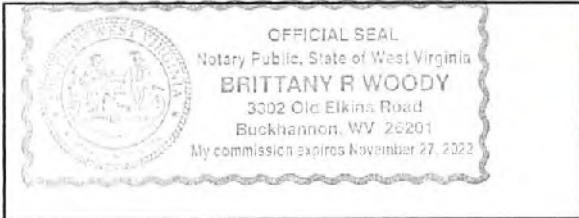
Notice is hereby given by:

Well Operator: SWN Production Co., LLC
Telephone: 304-884-1614
Email: Dee_Southall@swn.com

Address: P.O. Box 1300
Jane Lew, WV 26378
Facsimile: 304-884-1690

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 7th day of November 2017
Brittany R. Woody Notary Public
My Commission Expires 11/27/2022

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Attachment #1

Timmy Minch OHI Pad - Water Purveyors w/in 1500' Sources

Landowner

Timmy & Amy Minch
Robert William Minch Jr.

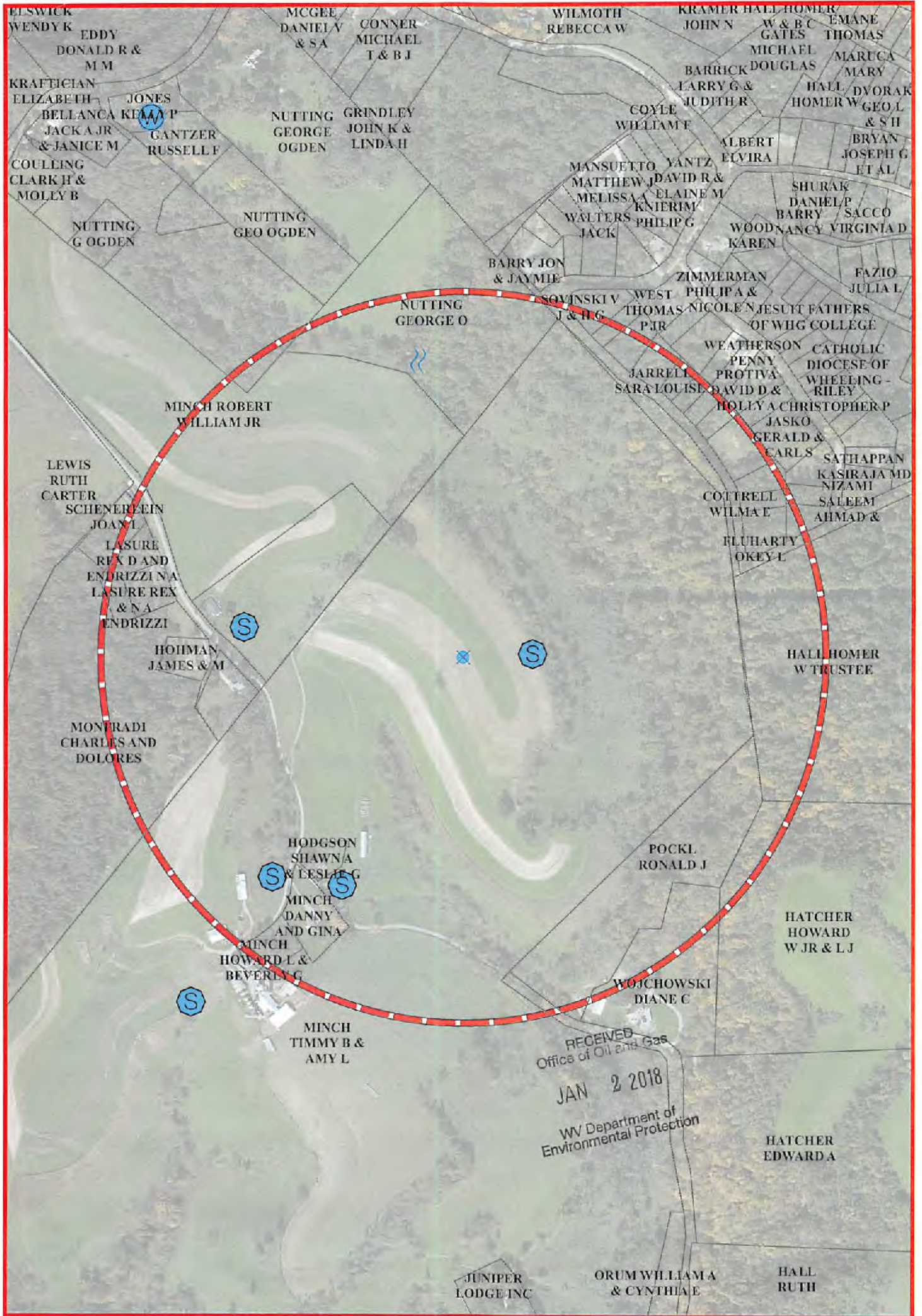
Address

260 Browns Run Road, Wheeling WV 26003 3 springs
265 Browns Run Road, Wheeling WV 26003 1 spring

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

<h2 style="text-align: center;">Water Purveyor Map</h2>			Well Pad: Timmy Minch OHI Pad	County: OHIO
			Timmy Minch OHI Coordinates: 40.085316, -80.646559	
Map by: speart NAD 1983 BLM Zone 17N ftUS	Date: 1/16/2017 			

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

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

Notice Time Requirement: Notice shall be provided at least **TEN (10)** days prior to filing a permit application.

Date of Notice: 11/09/2017

Date Permit Application Filed: 12/21/17

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: Timmy B. & Amy L. Minch

Address: 260 Browns Run Rd.

Wheeling, WV 26003

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:	<u>West Virginia</u>	UTM NAD 83 Easting:	<u>530,153.319</u>
County:	<u>Ohio</u>	UTM NAD 83 Northing:	<u>4,437,286.778</u>
District:	<u>Triadelphia</u>	Public Road Access:	<u>Browns Run</u>
Quadrangle:	<u>Wheeling, WV</u>	Generally used farm name:	<u>Timmy Minch OHI</u>
Watershed:	<u>Browns Run of Peters Run of Little Wheeling Creek</u>		

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 57th Street, SE, Charleston, WV 25304 (304-926-0450) or by visiting www.dep.wv.gov/oil-and-gas/pages/default.aspx.

Notice is hereby given by:

Well Operator: SWN Production Company, LLC
Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Telephone: 304-517-6603
Email: Michael_Yates@swn.com
Facsimile: 304-884-1691

Authorized Representative: Mike Yates
Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Telephone: 304-517-6603
Email: Michael_Yates@swn.com
Facsimile: 304-884-1691

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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 of 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

Jim Justice
 Governor

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

April 17, 2017

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

Subject: DOH Permit for the Timmy Minch Pad, Ohio County
 Timmy Minch OHI 401H

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2011-0441 for the subject site to Southwestern Energy for access to the State Road for the well site located off of Ohio County Route 25/1 SLS.

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

Very Truly Yours,

Gary K. Clayton, P.E.
 Regional Maintenance Engineer
 Central Office Oil & Gas Operations
 Office of Oil and Gas

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

JAN 2 2018

WV Department of
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FRAC ADDITIVES			
Product Name	Product Use	Chemical Name	CAS Number
EC6734A (Champion Technologies)	Biocide	Hydrogen Peroxide	7722-84-1
		Acetic Acid	64-19-7
		Peroxyacetic Acid	79-21-0
GYPTRON T-390 (Champion Technologies)	Scale Inhibitor	Methanol	67-56-1
		Nonylphenol Ethoxylate	Proprietary
Bactron K-139 (Champion Technologies)	Biocide	Glutaraldehyde	111-30-8
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
		Ethanol	64-17-5
Bactron K-219 (Champion Technologies)	Biocide	Methanol	67-56-1
		Quaternary Ammonium Compounds, Benzyl-C12-16-Alkyldimethyl, Chlorides	68424-85-1
EC6486A (Nalco Champion)	Scale Inhibitor	Amine Triphosphate	Proprietary
		Ethylene Glycol	107-21-1
WFRA-2000 (U.S. Well Services)	Anionic Friction Reducer	Hydrotreated light distillate (petroleum)	64742-47-8
		Propenoic acid, polymer with propenamide	9003-06 9
AI-303 (U.S. Well Services)	Mixture	Ethylene glycol	107-21 1
		Cinnamaldehyde	104-55 2
		Butyl cellosolve	111-76 2
		Formic acid	64-18 6
		Polyether	Proprietary
		Acetophenone, thiourea, formaldehyde polymer	68527-49 1
AP ONE (U.S. Well Services)	Breaker	Ammonium persulfate	7727-54-0
OPTI-FLEX (U.S. Well Services)	Viscosifying Agent	Distillates, petroleum, hydrotreated light	64742-47-8

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