



west virginia department of environmental protection

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

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

November 13, 2015

WELL WORK PERMIT

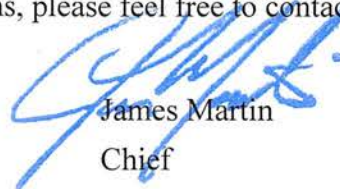
Horizontal 6A Well

This permit, API Well Number: 47-6900203, 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: WILLIAM RODGERS OHI 405H
Farm Name: RODGERS, WILLIAM I. & DOUGI

API Well Number: 47-6900203

Permit Type: Horizontal 6A Well

Date Issued: 11/13/2015

Promoting a healthy environment.

11/13/2015

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. If any explosion or other accident causing loss of life or serious personal injury occurs in or about a well or well work on a well, the well operator or its contractor shall give notice, stating the particulars of the explosion or accident, to the oil and gas inspector and the Chief, within 24 hours of said accident.
8. During the casing and cementing process, in the event cement does not return to the surface, the oil and gas inspector shall be notified within 24 hours.
9. The operator shall provide to the Office of Oil and Gas the dates of each of the following within 30 days of their occurrence: completion of construction of the well pad, commencement of drilling, cessation of drilling, completion of any other permitted well work, and completion of the well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov.

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 69- Ohio 3-Liberty 648- Valley Grove
Operator ID County District Quadrangle

2) Operator's Well Number: William Rodgers OHI 405H Well Pad Name: William Rodgers OHI Pad

3) Farm Name/Surface Owner: William I. Rodgers & Douglas W. Rodgers Public Road Access: Atkinson Potomac Hill Road / R.L. 40

4) Elevation, current ground: 1280 Elevation, proposed post-construction: 1280

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

(b) If Gas Shallow Deep
Horizontal

6) Existing Pad: Yes or No yes EB 6.10.15

7) Proposed Target Formation(s), Depth(s), Anticipated Thickness and Associated Pressure(s):
Target Formation- Marcellus, Target Top TVD- 8521', Target Base TVD- 8564', Anticipated Thickness- 43', Associated Pressure- 3920'

8) Proposed Total Vertical Depth: 6557'

9) Formation at Total Vertical Depth: Marcellus

10) Proposed Total Measured Depth: 14,731'

11) Proposed Horizontal Leg Length: 7528.64'

12) Approximate Fresh Water Strata Depths: .300'

13) Method to Determine Fresh Water Depths: from nearby water wells and offset wells

14) Approximate Saltwater Depths: 1189'

15) Approximate Coal Seam Depths: 673'


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: _____

18)

CASING AND TUBING PROGRAM

TYPE	Size (in)	New or Used	Grade	Weight per ft. (lb/ft)	FOOTAGE: For Drilling (ft)	INTERVALS: Left in Well (ft)	CEMENT: Fill-up (Cu. Ft.)/CTS
Conductor	20"	New	H-40	94#	100'	100'	CTS
Fresh Water	13 3/8"	New	J-55	54.5#	450'	450'	418 sx/CTS
Coal	9 5/8"	New	J-55	40#	1997'	1997'	762 sx/CTS
Intermediate	7"	New	J-55	20#	If Needed	If Needed	If Needed/As Needed
Production	5 1/2"	New	HCP-110	20#	16,600'	16,600'	Lead 995sx tall 2305sx/100' inside int. 
Tubing	2 3/8"	New	P-110	4.7#	Approx. 6576'	Approx. 6576'	
Liners							

Handwritten signature and date: 6/10/15

TYPE	Size (in)	Wellbore Diameter (in)	Wall Thickness (in)	Burst Pressure (psi)	Max. Associated Surface Pressure (psi)	Cement Type	Cement Yield (cu. ft./k)
Conductor	20"	30"	0.25	2120	81	Class A	1.19/50% Excess
Fresh Water	13 3/8"	17.5"	0.380	2740	633	Class A	1.19/50% Excess
Coal	9 5/8"	12 1/4"	0.395	3950	1768	Class A	1.19/50% Excess
Intermediate	7"	8 3/4"	0.317	4360	3250	Class A	1.20/15% Excess
Production	5 1/2"	8 3/4"	0.361	12360	9500	Class A	1.20/15% Excess
Tubing	2 3/8"	4.778"	0.190				
Liners							

Handwritten signature and date: 6/10/15

PACKERS

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

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 Page 2 of 3
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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'-70' below void. (*If freshwater is encountered deeper than anticipated it must be protected, set casing 50'-70' below and cts.)

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

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

21) Total Area to be disturbed, including roads, stockpile area, pits, etc., (acres): 17.356

22) Area to be disturbed for well pad only, less access road (acres): 11.393

23) Describe centralizer placement for each casing string:

All casing strings will be ran with a centralizer at a minimum of 1 per every 3 joints of casing.

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

See Attachment ***

25) Proposed borehole conditioning procedures:

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

*Note: Attach additional sheets as needed.

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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 (attapulgate)	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 (attapulgate)	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

Well : WILLIAM RODGERS OHI 405 Re-entry Rig : TBD
 Field : PANHANDLE FIELD Prospect : PANHANDLE
 County : OHIO State : WV
 SHL : 40.106856 Latitude -80.532176 Longitude
 BHL : 40.12980123 Latitude -80.53297084 Longitude
 KB Elev : 1296 ft MSL KB : 26 ft AGL GL Elev : 1270 ft MSL



Tubular Detail

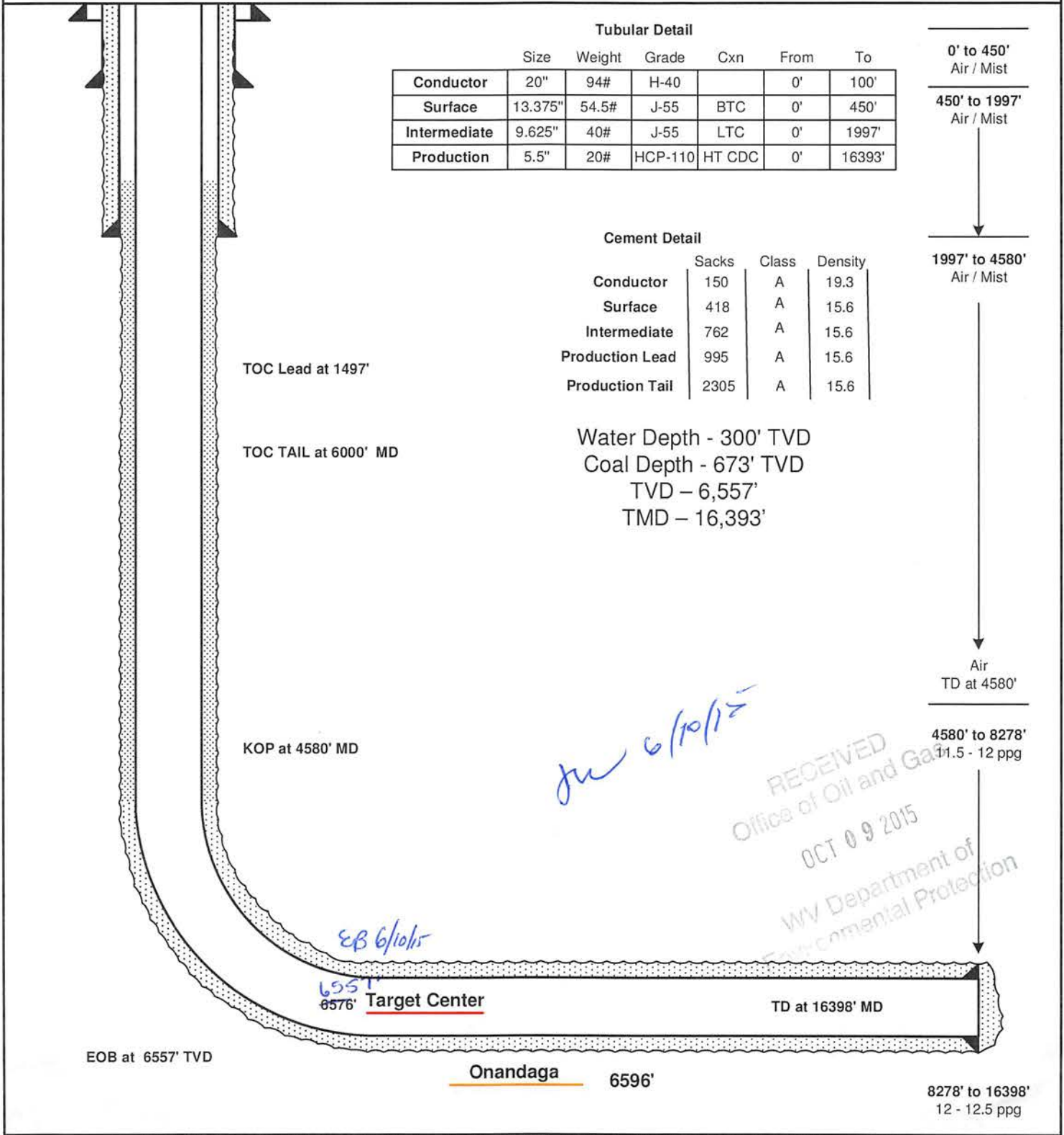
	Size	Weight	Grade	Cxn	From	To
Conductor	20"	94#	H-40		0'	100'
Surface	13.375"	54.5#	J-55	BTC	0'	450'
Intermediate	9.625"	40#	J-55	LTC	0'	1997'
Production	5.5"	20#	HCP-110	HT CDC	0'	16393'

0' to 450' Air / Mist
 450' to 1997' Air / Mist
 1997' to 4580' Air / Mist
 Air TD at 4580'

Cement Detail

	Sacks	Class	Density
Conductor	150	A	19.3
Surface	418	A	15.6
Intermediate	762	A	15.6
Production Lead	995	A	15.6
Production Tail	2305	A	15.6

Water Depth - 300' TVD
 Coal Depth - 673' TVD
 TVD - 6,557'
 TMD - 16,393'



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4580' to 8278' 11.5 - 12 ppg
 8278' to 16398' 12 - 12.5 ppg

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

WW-9
(9/13)

API Number 47 - 69 - 00203
Operator's Well No. William Rodgers OHI 405H

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) Little Wheeling Creek Quadrangle 648- Valley Grove

Elevation 1280 County 69- Ohio District 3- Liberty

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. Air drill to KOP, fluid drill with SOBM from KOP to TD

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

Additives to be used in drilling medium? see attached sheets

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? meadow SWF- 1032, SS Grading SWF- 4902, Northwestern SWF- 1025, Short Creek 1034/WV0109517/CID28726, Carbon Limestone 28726/CID28726 Arden Landfill 10072, American 02-12954, Country Wide 38390/CID38390, 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]

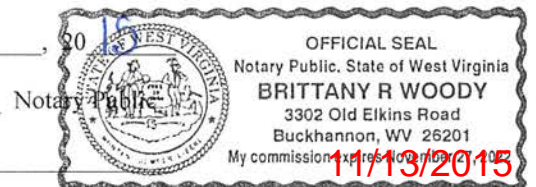
Company Official (Typed Name) Dee Southall

Company Official Title Regulatory Supervisor

Subscribed and sworn before me this 3rd day of June, 2015

Brittany R Woody

My commission expires 11/27/15



Office of Oil and Gas
OCT 09 2015
WV Department of Environmental Protection

09-00203

Form WW-9

Operator's Well No. William Rodgers OHI 405H

SWN Production Co., LLC

Proposed Revegetation Treatment: Acres Disturbed 17 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	Seed Type	lbs/acre
White Grove	15	White Grove	15
Red Top	15	Red Top	15
Orchard Grass	20	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] 6-10-15 [Signature]

Comments: _____

Title: Oil and Gas Inspector Date: 6-10-15

Field Reviewed? () Yes () No

69-00203

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

SWN Production Co., LLC

47 - 051 -

Well name: William Rodgers OHI 405H
Valley Grove, Quad
Liberty, District
Ohio County, West Virginia

Submitted by:


Danielle Southall

6/3/2015

Date:

Title Regulatory Supervisor

SWN Production Co., LLC

Approved by:



Date:

6-10-15

Title: Oil & Gas Inspector

Approved by:

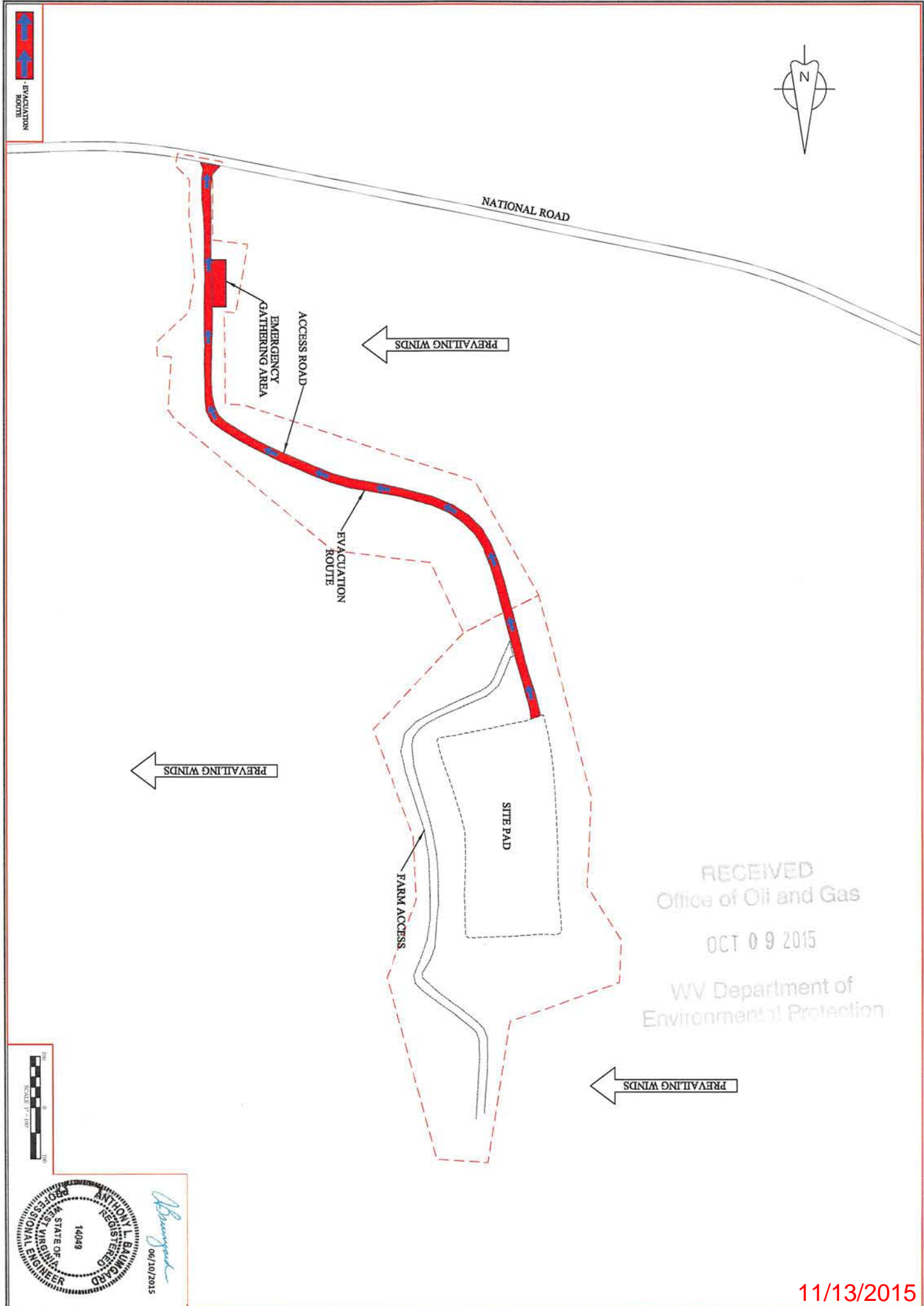
Date:

Title:

SWN Production Co., LLC – Confidential

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ANTHONY L. BALDING, P.E.
REGISTERED PROFESSIONAL ENGINEER
STATE OF WEST VIRGINIA
14049
06/10/2015

11/13/2015

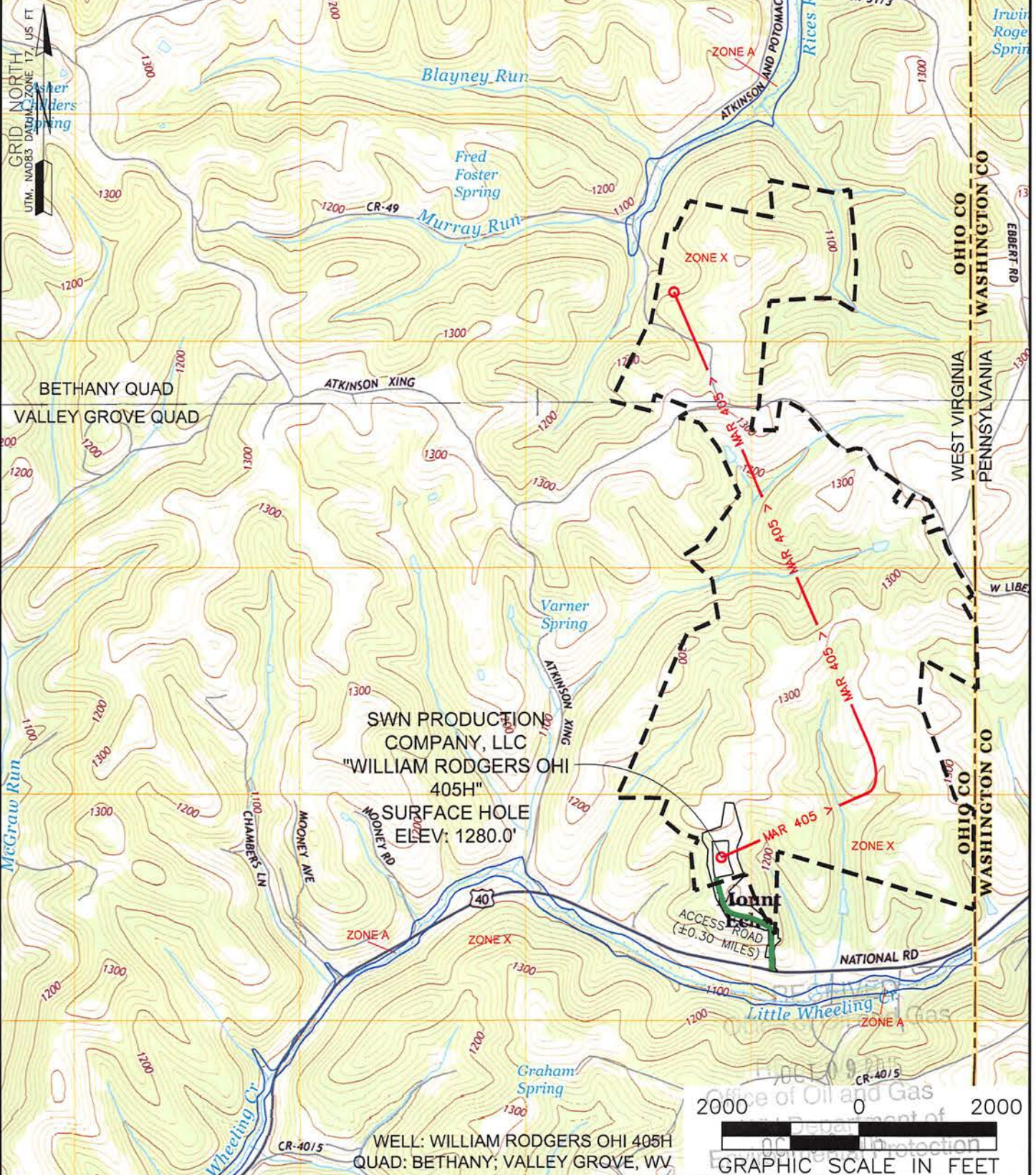
JOB: DATE: 09/08/2015 DRAWN BY: ADS SCALE: AS SHOWN SHEET 3 OF 8	EVACUATION PLAN SHEET	swn SOUTHWESTERN ENERGY	DATE	REVISION
	WILLIAM RODGERS OHI PAD 'A' AS-BUILT WELL PAD A & B ACCESS ROAD LIBERTY DISTRICT, OHIO COUNTY, WEST VIRGINIA			



11/13/2015 69-00203



320 O'Bryan Lane • Van Buren, AR 72956
Office: 479.474.7916 • Fax: 479.474.2450
Surveying • handa-inc.com



NAME AND DISTANCE TO THE NEAREST STREAM: UNNAMED TRIBUTARY OF LITTLE WHEELING CREEK ±0.14 MILES SOUTHEAST OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.		COMPANY: 	
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LAGER THAN 2500 SQ FT: >625 FEET		OPERATOR'S WILLIAM RODGERS OHI		WELL #: 405H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF OHIO COUNTY, WEST VIRGINIA; MAP NUMBER 54069C0085D & 54069C0045D; EFFECTIVE DATE: JULY 17, 2006.		LOCATION: LIBERTY DISTRICT, OHIO COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.106895° LONGITUDE: -80.532179°	
LEGEND: ● PROPOSED SURFACE HOLE / BOTTOM HOLE ☼ EXISTING / PRODUCING WELLHEAD ✕ ABANDONED WELL ✕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR (S) EXISTING SPRING (W) EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.129364° LONGITUDE: -80.534505°		REVISIONS: △ REVISED DIRECTIONAL PATH 08-17-2015 △ ADDED ADJACENT PARCEL OWNERS, TAX MAP PARCEL NUMBER, & ACREAGE, 09-21-2015	
				DATE: 09-24-2015 DRAWN BY: C. BROWN SCALE: 1" = 2000' DRAWING NO: 59095 TOPOGRAPHIC MAP	

Attachment #4

69-00203
 C. 10-15
 SPS



Source: Esri, DigitalGlobe, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community, Esri, HERE, DeLorme, TomTom, MapmyIndia, © OpenStreetMap contributors, and the GIS user community



Legend OCT 09 2015 SWN Southwestern Energy

- Pad Location
- Church
- School
- 1 Mile Radius
- Transportation Routes

William Rodgers OHI 5H-1Mile
Ohio County, West Virginia

11/13/2015
 Coordinate System: NAD 83 StatePlane West Virginia North FIPS 4701 Feet

Path: K:\EandPW\WD\Team Data\GIS\Larry_Sarantus\Projects\Regulatory\One Mile Maps\William Rodgers OHI 5H-1Mile.mxd



320 O'Bryan Lane • Van Buren, AR 72956
Office: 479.474.7916 • Fax: 479.474.2450
Surveying • handa-inc.com

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 85°25'11" W	423.91'	SHL TO LANDMARK	1/2" IRON PIPE
L2	S 37°27'06" W	641.56'	SHL TO LANDMARK	CONCRETE MONUMENT
L3	N 28°09'08" E	239.04'	SHL TO REF. PNT.	5/8" REBAR SET
L4	S 02°58'49" E	27.94'	SHL TO REF. PNT.	WILLIAM RODGERS OHI 3H WELL HEAD (069-00094)

LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	N 54°01'17" E	2682.86'		SHL TO LP
L6	N 23°27'06" W	7196.99'		LP TO BHL

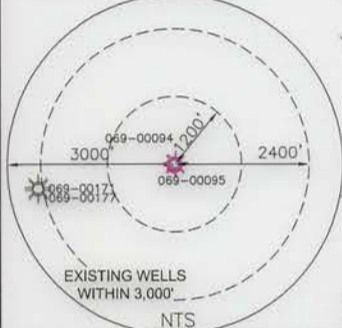
Latitude: 40°07'30"

Longitude: 80°30'00"

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	WILLIAM I. RODGERS & DOUGLAS WAYNE RODGERS (S/R)	3-L12-1	143.09
2	TUNNEL RIDGE, LLC. (S) LOIS MILLER (R) ALICE ANDERSON (R)	3-L12-4.6	60.00
3	RAYMOND MILLER C/O HILDA E. MILLER (S) HILDA E. MILLER (R)	3-L12-2	44.15
4	JEFFREY S. OCH & DANA R. OCH (S) HILDA E. MILLER (R)	3-L12-2.1	44.15
5	JEFFREY S. OCH & DANA R. OCH (S/R)	3-L9-18	49.80
6	THELMA A. MILLER LIFE ESTATE (S/R) CARL E. MILLER JR., REMAINDERMAN (S/R)	3-L9-15	54.91
7	THELMA A. MILLER LIFE ESTATE (S/R) CARL E. MILLER JR., REMAINDERMAN (S/R)	3-L9-15.3	42.38
8	THELMA A. MILLER LIFE ESTATE (S/R) CARL E. MILLER JR., REMAINDERMAN (S/R)	3-L9-15.4	60.91
9	DANIEL LEE HENRY & DIANE L. HENRY (S/R)	3-L9-6.5	30.28
10	DAVID E. MCNABB & BRENDA L. MCNABB (S/R)	3-L9-6.8	15.66
11	MICHAEL E. FISHER & SUSAN K. FISHER (S/R)	3-L9-6.6	29.65
12	RODNEY L. PLANTS & JESSICA L. PLANTS (S/R)	3-L9-2	112.08

NOTES ON SURVEY

- COORDINATE SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- 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.
- NO OCCUPIED DWELLINGS AND AGRICULTURE BUILDINGS GREATER THAN 2500 SQ FT. WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,439,726.490 EASTING: 539,870.798
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,440,206.896 EASTING: 540,532.542
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,442,219.342 EASTING: 539,659.529



SWN PRODUCTION COMPANY, LLC
"WILLIAM RODGERS OHI 405H"
SURFACE HOLE
ELEV: 1280.0'



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 REGULATIONS ISSUED AND PRESCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.

P.S. 2315



(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
OFFICE OF OIL & GAS
601 57TH STREET
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200
PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

COMPANY: **SWN** Production Company, LLC
SWN Production Company™

WILLIAM RODGERS OHI
OPERATOR'S WELL #: 405H
API WELL #: 47 69 00203H6A
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: WHEELING CREEK ELEVATION: 1280.0'

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: VALLEY GROVE, WV

SURFACE OWNER: WILLIAM I. RODGERS & DOUGLAS W. RODGERS ACREAGE: ±143.09

OIL & GAS ROYALTY OWNER: WILLIAM I. RODGERS & DOUGLAS W. RODGERS ACREAGE: ±143.09

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,552' TVD 14,731' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, 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

LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊗ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊗⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	REVISIONS: △ REVISED DIRECTIONAL PATH 08-17-2015 △ ADDED ADJACENT PARCEL OWNERS, TAX MAP PARCEL NUMBER, & ACREAGE, 09-21-2015	DATE: 09-24-2015 DRAWN BY: C. BROWN SCALE: 1" = 2000' DRAWING NO: 59095 WELL LOCATION PLAT
--	--	--



320 O'Bryan Lane • Van Buren, AR 72956
 Office: 479.474.7916 • Fax: 479.474.2450
 Surveying • handa-inc.com

ADJOINING OWNERS

TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	WILLIAM I RODGERS	3-L12-5.1	17.16
B	TODD M MAXWELL	3-L12-27	11.74
C	CATHY J CALDWELL & JERRY W CALDWELL	3-L12-6	5.52
D	MARION S MAZGAJ & WILDRED J MAZGAJ	3-L11-62	52.63
E	JAMES R CREIGHTON & MARTHA E CREIGHTON	3-L11-29	70.05
F	TIMMY B MINCH & AMY LYNN MINCH	3-L9-12	109.75
G	WILLIAM H BALL & LARRY G BALL	3-L9-11	44.69
H	WILLIAM E NOBLE	3-L9-14	47.28
I	DOROTHY BALL	3-L9-6.2	0.24
J	WILLIAM H BALL & DOROTHY M BALL	3-L9-6.3	2.01
K	LARRY G BALL	3-L8-42	51.77
L	ROBERT F REASS & N C REASS	3-L9-1	173.90
M	RODNEY G PLANTS & JESSICA J PLANTS	3-L9-2.3	0.44
N	RODNEY G PLANTS & JESSICA J PLANTS	3-L9-2.2	1.20
O	RODNEY G PLANTS & JESSICA J PLANTS	3-L9-2.1	12.80
P	DELMAR K LOEW & V G LOEW	3-L6-19	143.49
Q	DELMAR K LOEW & V G LOEW	3-L6-18.2	77.07
R	MICHAEL WILHELM & JULIA E WILHELM	3-L6-20	55.89
S	DAVID J HALL & C J HALL	3-L9-3	92.18
T	MARK S MIKESINOVICH	3-L9-6.9	44.33
U	DONALD L HENRY & J A HENRY	3-L9-6.7	2.99
V	JOHN A SCHULTZ	3-L9-6.10	53.71
W	ROBERT L COOK & FLORENCE A COOK	3-L9-6	13.28
X	NANCY C BALL	3-L9-6.12	0.02
Y	NANCY C BALL	3-L9-6.1	0.81
Z	NANCY C BALL	3-L9-16	1.26
AA	NANCY C BALL	3-L9-6.11	6.43
BB	MARTHA E M SHALER	3-L9-15.1	1.09
CC	LEWIS E NICHOLSON & SUSAN L NICHOLSON	3-L9-17	20.38
DD	CARL MILLER JR & CARL E MILLER III	3-L9-15.2	1.00
EE	KEVIN R WURTZBACHER & J A WURTZBACHER	3-L9-17.3	1.09
FF	WILLIAM R WURTZBACHER & JEAN W WURTZBACHER	3-L9-17.1	4.25
GG	WILLIAM R WURTZBACHER & JEAN W WURTZBACHER	230-008-00-00-0001-00	70.32
HH	JOHN C DAVIS & ANNA M DAVIS	230-008-00-00-0003-00	2.50
II	LARRY LEE RODGERS	230-008-00-00-0004-03	21.26
JJ	ROBERT E RODGERS	230-008-00-00-0004-00	42.74
KK	TUNNEL RIDGE LLC	3-L12-3	23.59
LL	TUNNEL RIDGE LLC	230-007-00-00-0011-01	11.58
MM	TUNNEL RIDGE LLC	230-007-00-00-0012-05	7.55
NN	HILDA E MILLER	230-007-00-00-0012-00	24.35
OO	JOSEPH TANKOVITS & ANITA M TANKOVITS	3-L12-4	63.37
PP	JACK M DILLIE & J DILLIE	3-L12-4.1	9.63

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11/13/2015

REVISIONS:	COMPANY:	SWN Production Company, LLC	SWN Production Company™
	OPERATOR'S	WILLIAM RODGERS OHI	DATE: 09-24-2015
	WELL #:	405H	DRAWN BY: C. BROWN
	LOCATION:	LIBERTY DISTRICT, OHIO COUNTY, WEST VIRGINIA	SCALE: N/A
			DRAWING NO: 59095
			ADJOINING OWNERS

69-00203

EXHIBIT "A"
Attached to and made a part of the State of West Virginia Oil and Gas Pooled Lease from WV-644, by SNV Production Company, LLC Operator
Western Integers Petroleum Corp. (WIP)
0125 (Section), WV-172624

TRACT	OWNER	ACRES	LEASE #	LESSOR	ROYALTY	DATE
3-13-64	Trend Ridge LLC	30	3-27285-000	Lyni Weber	12.5%	7/27/14
3-13-64	Trend Ridge LLC	30	3-28353-000	Alan Anderson	12.5%	8/20/14
3-13-64	Anthony Weber, John E. Miller	41.15	WV000023-000	Hilda E. Miller	12.5%	8/20/14
3-13-64	Jeffrey S. Oak and Brian R. Oak	41.15	WV000023-000	Hilda E. Miller	12.5%	8/20/14
3-13-64	Jeffrey S. Oak and Brian R. Oak	41.15	WV000023-000	Hilda E. Miller	12.5%	8/20/14
3-13-64	Thomas A. Weber, TLE Estate Carl E. Weber, Jr. Beneficiary	54.91	3-31398-000	Thomas A. Weber, TLE Estate Carl E. Weber, Jr. Beneficiary	12.5%	8/20/14
3-13-64	Thomas A. Weber, TLE Estate Carl E. Weber, Jr. Beneficiary	42.38	3-31395-000	Thomas A. Weber, TLE Estate Carl E. Weber, Jr. Beneficiary	12.5%	8/20/14
3-13-64	Thomas A. Weber, TLE Estate Carl E. Weber, Jr. Beneficiary	60.9824	3-31395-000	Thomas A. Weber, TLE Estate Carl E. Weber, Jr. Beneficiary	12.5%	8/20/14
3-13-64	David Lee Henry and Diane L. Henry	10.279	3-31391-000	David Lee Henry and Diane L. Henry	12.5%	8/20/14
3-13-64	David E. Markels and Kenneth L. Markels	15.438	3-32852-000	David E. Markels and Kenneth L. Markels	12.5%	8/20/14
3-13-64	Michael E. Fisher and Susan E. Fisher	20.55	3-32852-000	Michael E. Fisher and Susan E. Fisher	12.5%	8/20/14
3-13-64	Anthony L. Hines and Jessica L. Hines	112.08	3-31396-000	Anthony L. Hines and Jessica L. Hines	12.5%	8/20/14

69-00203

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

June 3, 2015

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

RE: SWN's proposed William Rodgers OHI 5H, William Rodgers OHI 205H, William Rodgers OHI 405H & William Rodgers OHI 605H in Ohio County, West Virginia, Drilling under Atkinson Potomac Hill Road

Dear Ms. Adkins:

SWN Production Company, LLC ("SWN") is applying for a drilling permit for the above referenced well. The State of West Virginia has raised some concern as to SWN's right to drill under Atkinson Potomac Hill Road. Please be advised that SWN has leased all mineral owners under said route as it relates to the above-referenced well and unit.

Thank you.

Sincerely,



Robert Walter
 Senior Landman
 SWN Production Company, LLC
 10000 Energy Drive
 Spring, Texas 77389

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

WV Department of
 Environmental Protection

11/13/2015

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

Date of Notice Certification: 10/9/15

API No. 47- 69 - 00203
Operator's Well No. William Rodgers OHI 405H
Well Pad Name: William Rodgers OHI 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>WV</u>	UTM NAD 83 Easting: <u>539870.798</u>
County: <u>69- Ohio</u>	Northing: <u>4439726.490</u>
District: <u>3- Liberty</u>	Public Road Access: <u>Atkinson Potomac Hill Road</u>
Quadrangle: <u>648- Valley Grove</u>	Generally used farm name: <u>William Rodgers</u>
Watershed: <u>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

- 1. NOTICE OF SEISMIC ACTIVITY or NOTICE NOT REQUIRED BECAUSE NO SEISMIC ACTIVITY WAS CONDUCTED
- 2. NOTICE OF ENTRY FOR PLAT SURVEY or NO PLAT SURVEY WAS CONDUCTED
- 3. NOTICE OF INTENT TO DRILL or NOTICE NOT REQUIRED BECAUSE NOTICE OF ENTRY FOR PLAT SURVEY WAS CONDUCTED or WRITTEN WAIVER BY SURFACE OWNER (PLEASE ATTACH)
- 4. NOTICE OF PLANNED OPERATION
- 5. PUBLIC NOTICE
- 6. NOTICE OF APPLICATION

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NOT REQUIRED

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NOT REQUIRED

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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.

WV Department of
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11/13/2015

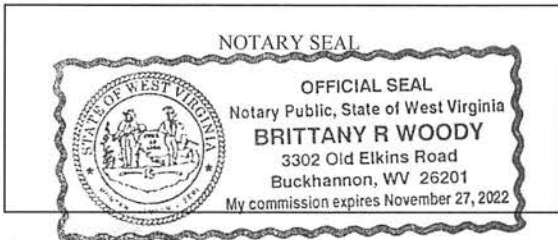
69-00203

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: 832-796-1614

Address: P.O. Box 12359
Spring, TX 77391-4954
Facsimile: 304-471-2497
Email: Dee_Southall@swn.com



Subscribed and sworn before me this 3rd day of June 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.

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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: 10/9/15 **Date Permit Application Filed:** 10/9/15
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 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: William I. Rodgers & Douglas W. Rodgers
Address: 94 McCoy Road
Valley Grove, WV 26060
Name: Jack Dillie
Address: PO Box 4
Valley Grove, WV 26060

COAL OWNER OR LESSEE
Name: Alliance Resources GP, LLC %Christine St. John
Address: 2596 Battle Run Road
Triadelphia, WV 26059

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

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Attachment #1

69-00203

William Rodgers 10H Pad Water Purveyor 1500ft

Map	Parcel #	Landowner Name	Landowner Address
L11	62	Mildred & Marion Mazgaj	PO Box 206, Valley Grove, WV 26060 ✓
L12	1	William & Douglas Rodgers	94 McCoy Road, Valley Grove, WV 26060 ✓
L12	4	Joseph & Anita Tankovits	11519 National Road, Valley Grove, WV 26060 ✓ 10/13/15
L12	5.1	William & Douglas Rodgers	94 McCoy Road, Valley Grove, WV 26060 ✓
L12	6	Cathy & Jerry Caldwell	182 Caldwell Lane, Valley Grove, WV 26060 ✓
L12	27	Todd Maxwell	11149 National Road, Valley Grove, WV 26060 ✓
L12J	5.2	William & Douglas Rodgers	94 McCoy Road, Valley Grove, WV 26060 ✓

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69-00203
7014 2120 0000 7175 9462

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For delivery information, visit our website at www.usps.com[®]
OFFICIAL USE

Postage	\$	EW WY 2637
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Postmark Here
Handwritten: 10/8/2015

TC
 Ser: William I Rodgers &
 Douglas W Rodgers
 94 McCoy Road
 Valley Grove, WV 26060
 PS
 Sir/ or F
 City

PS
IONS

7014 2120 0000 7175 9455

U.S. Postal ServiceTM
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Postage	\$	63.72
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Postmark Here

To: Jack Dillie
 P O Box 4
 Valley Grove, WV 26060
 PS
 Sir/ or F
 City

PS
IONS

Handwritten: WA

Handwritten: Surface

69-00203

7014 2120 0000 7175 9479

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Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	



Postmark
Here

Si	Alliance Resources GP, LLC	
\$	% Christine St. John	
01	2596 Battle Run Road	
C	Triadelphia, PA 26059	
PS		See reverse for instructions

Call

47-069-00203

4054

Water

7014 2120 0000 7176 1694

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Return Receipt Fee (Endorsement Required)	OCT - 8 2015	
Restricted Delivery Fee (Endorsement Required)		

Tr

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 or F
 City

Joseph & Anita Tankovits
 11519 National Road
 Valley Grove, WV 26060

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OCT 13 2015

WV Department of
Environmental Protection

11/13/2015

1000 7176 1694

7014 2120 0000 7176 1892

69-00203

7014 2120 0000 7175 9516

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Certified Fee		
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Restricted Delivery Fee (Endorsement Required)		

Postmark Here
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Todd Maxwell
11149 National Road
Valley Grove, WV 26060



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Postage	\$	
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Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

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Mildred & Marion Mazgai
P O Box 206
Valley Grove, WV 26060



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Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Postmark Here
OCT - 8 2015

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OFFICIAL USE

58RT 92T2 0000 02T2 4T02

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		

Postmark Here

Cathy & Jerry Caldwell
182 Caldwell Lane
Valley Grove, WV 26060



Water

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

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.**

WV Department of
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11/13/2015

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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WW-6A
(8-13)

API NO. 47- 69 - 00203
OPERATOR WELL NO. William Rodgers OHI 405H
Well Pad Name: William Rodgers OHI Pad

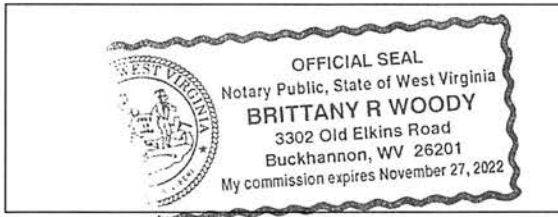
Notice is hereby given by:

Well Operator: SWN Production Co, LLC
Telephone: 304-884-1613
Email: Dee_Southall@swn.com

Address: P.O. Box 1300
Jane Lew, WV 26378
Facsimile: 304-471-2497

Oil and Gas Privacy Notice:

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



Subscribed and sworn before me this 3rd day of June 2015.
Brittany R Woody Notary Public
My Commission Expires 11/27/20

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WV Department of
Energy, Mineral and Natural Resources

11/13/2015

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: 06/04/2015 **Date Permit Application Filed:** 10/9/15

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: William I. Rodgers & Douglas W. Rodgers
Address: 94 McCoy Rd.
Valley Grove, WV 26060

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: 539,870.798
County: Ohio Northing: 4,439,726.490
District: Liberty Public Road Access: National Rd.
Quadrangle: Valley Grove Generally used farm name: _____
Watershed: Wheeling Creek

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.

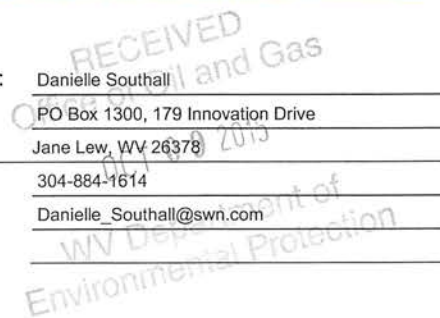
Notice is hereby given by:

Well Operator: SWN Production Co, LLC
Address: PO Box 1300, 179 Innovation Drive
Jane Lew, WV 26378
Telephone: 304-884-1615
Email: Steve_Perkins@swn.com
Facsimile: _____

Authorized Representative: Danielle Southall
Address: PO Box 1300, 179 Innovation Drive
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.



**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: 06/04/2015 **Date Permit Application Filed:** 10/9/15

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: William I. Rodgers & Douglas W. Rodgers Name: _____
Address: 94 McCoy Rd. Address: _____
Valley Grove, WV 26060 _____

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>539,870.798</u>
County:	<u>Ohio</u>		Northing:	<u>4,439,726.490</u>
District:	<u>Liberty</u>	Public Road Access:		<u>National Rd.</u>
Quadrangle:	<u>Valley Grove</u>	Generally used farm name:		_____
Watershed:	<u>Wheeling Creek</u>			

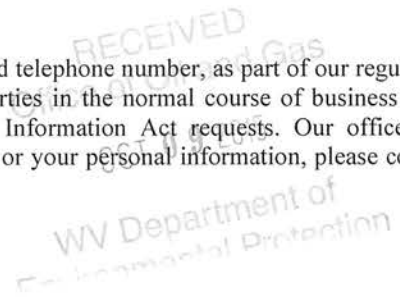
This Notice Shall Include:

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

Well Operator:	<u>SWN Production Company, LLC</u>	Address:	<u>PO Box 1300, 179 Innovation Drive</u>
Telephone:	<u>304-884-1614</u>		<u>Jane Lew, WV 26378</u>
Email:	<u>Danielle_Southall@swn.com</u>	Facsimile:	<u>304-472-4225</u>

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.



U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com®

OFFICIAL USE

Postage	\$		Postmark
Certified Fee			Here
Return Receipt Fee (Endorsement Required)			
Restricted Delivery Fee (Endorsement Required)			
Total Postage & Fees	\$		

Sent To: William Rodgers & Douglas Rodgers
Street, Apt. No., or PO Box No.: 94 McCoy Rd.
City, State, ZIP+4: Valley Grove, WV 26060

PS Form 3800, August 2006

See Reverse for Instructions

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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

June 25, 2015

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 William Rodgers Pad, Ohio County
William Rodgers OHI 405H

Dear Mr. Martin,

The West Virginia Division of Highways has transferred Permit #06-2011-0443 for the subject site to Southwestern Energy for access to the State Road for the well site located off of US 40 F in Ohio County.

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

Very Truly Yours,

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

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

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WV Department of
Environmental Protection

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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

WV Department of Environmental Protection

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 10-00-2015

Supplier Name	Product Name	Product Use	Chemical Name	CAS Number
NALCO ONESOURCE	EC6110A	Biocide	Ethanol	000064-17-5
			Glutaraldehyde (Pentanediol)	000111-30-8
			Quaternary Ammonium 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 Sand, Silicon Dioxide)	014808-60-7
	WCS-631LC	Clay Stabilizer	Proprietary Non Hazardous Salt	N/A-229
			Water	007732-18-5
	WFR-55LA	Friction Reducer	No Hazardous Components	NONE
	WGA-15L	Gel	Petroleum Distillate 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 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 Stabilizer	Clay Stabilizer	Cholinium Chloride	67-48-1
	Breaker J218	Breaker	Diammonium Peroxidisulphate	7727-54-0
	EB-Clean* J475 Breaker		Diammonium Peroxidisulphate	7727-54-0
	Friction Reducer B315	Friction Reducer	Distillates (petroleum), Hydrotreated light Aliphatic Alcohol Glycol Ether	64742-47-8 Proprietary
	Friction Reducer J609		Ammonium Sulfate	7783-20-2
Supplier Name	Product Name	Product Use	Chemical Name	CAS Number

69-00203
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SCHLUMBERGER	Water Gelling Agent J580	Gel	Carbohydrate Polymer	Proprietary
	Scale Inhibitor B317	Scale Inhibitor	Trisodium ortho phosphate Ethane-1, 2-diol	7601-54-9 107-21-1
	Borate Crosslinker J532	Crosslinker	Aliphatic polyol Sodium tetraborate decahydrate	Proprietary 1303- 96-4
	Crosslinker J610		Aliphatic polyol Potassium hydroxide	Proprietary 1310- 58-3

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Environmental Protection

11/13/2015



WEST VIRGINIA COUNTY MAP
 LIBERTY DISTRICT, OHIO COUNTY,
 SCALE: N.T.S.

PROJECT CONTACTS

SOUTHWESTERN ENERGY

Tom Chambers - Facilities Engineer
 501-548-3753
 John Angiulli, Field Regulator, Specialist
 304-884-1644
 Jimmy Johnson, Construction Superintendent
 304-997-9403

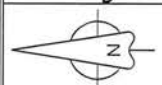
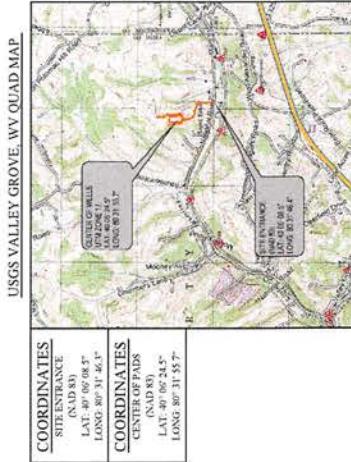
ENGINEER & SURVEYOR

Anthony Baumgard, PE
 Triple H Enterprises
 304-873-3260
 Darrell Boice, PS
 Triple H Enterprises
 304-873-3260



ANTHONY BAUMGARD, P.E. NO. WV 14049

WILLIAM RODGERS OHI PAD 'A' AS-BUILT
 AS-BUILT/PRODUCTION PLAN
 LIBERTY DISTRICT, OHIO COUNTY, WV
 SEPTEMBER 2015



UNIVERSAL TRANSVERSE MERCATOR COORDINATE SYSTEM (UTM) ZONE 17
 ELEVATIONS BASED ON WGS84
 ESTABLISHED BY SURVEY CONTROL MEASUREMENTS
 POST-PROJECTIONS

DRAWING INDEX

- 01 - COVER SHEET
- 02 - OVERALL
- 03 - SHEET 1
- 04 - SHEET 2
- 05 - ACCESS ROAD PROFILE SHEET
- 06 - DETAIL SHEET

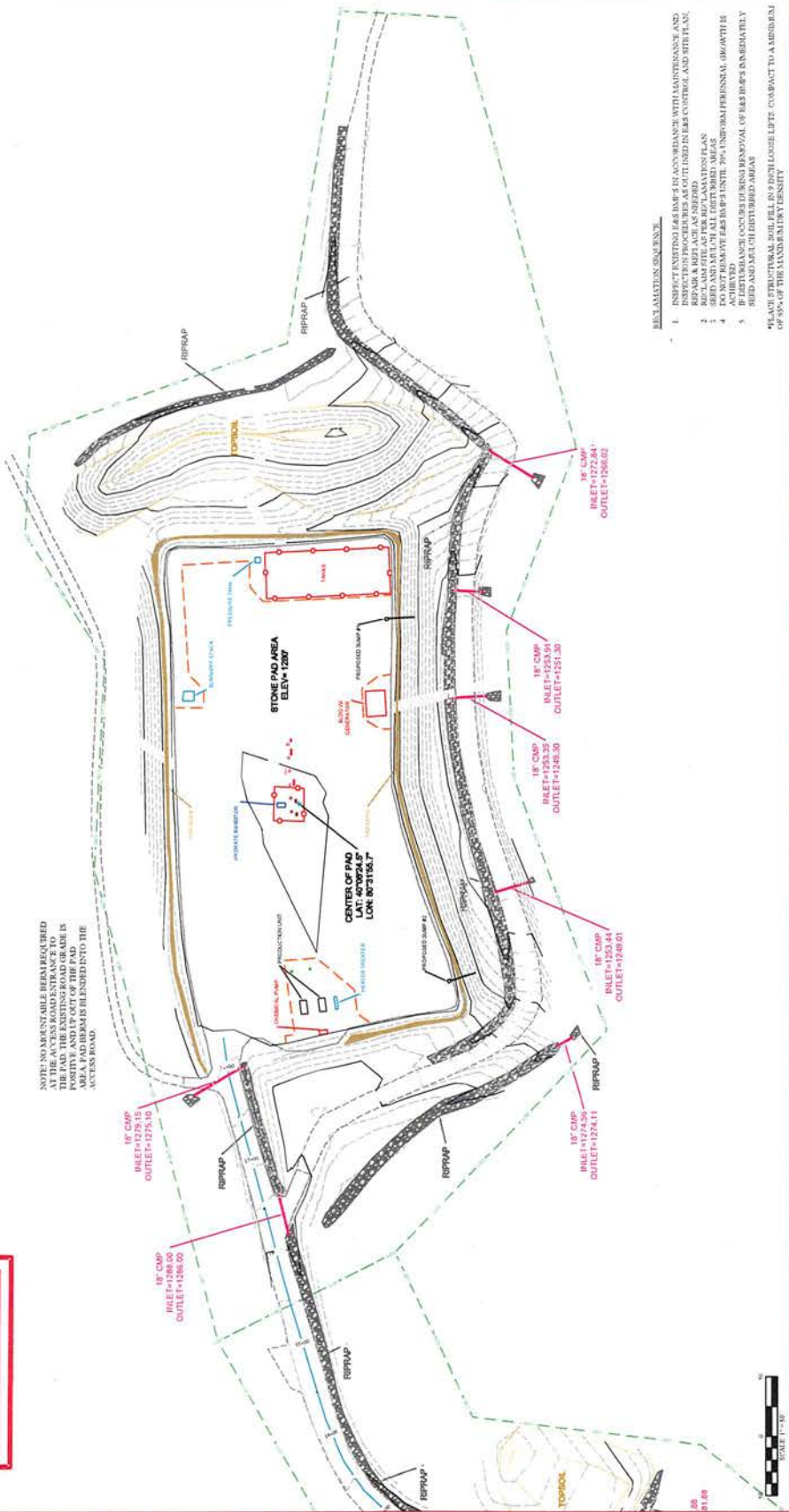
WELL NO.	APR NUMBER	WELL NO.	ART NUMBER
3H	059-00994		
3M	068-00965		
206H	068-00192		

WVDEP OOG
ACCEPTED AS-BUILT
WJ 9 / 16 / 2016

AS-BUILT CERTIFICATION:
 THE DRAWING CONSTRUCTION NOTES, AND
 ALL INFORMATION CONTAINED HEREIN,
 HAS BEEN PREPARED IN ACCORDANCE WITH THE WEST
 VIRGINIA CODE OF STATE RULES, DIVISION OF
 ENVIRONMENTAL, OFFICE OF OIL AND GAS SERVICES §54

- NOTES:**
1. THE AS-BUILT INFORMATION SHOWS IBERSON'S REFLECTS FIELD DATA COLLECTED RELATING TO THE LOCATION OF THE DISTURBED AREA AS OF SEPTEMBER 11, 2015. THIS INFORMATION IS SUBJECT TO ANY CHANGES MAJOR TO THE SITE AFTER THE ABOVE MENTIONED DATE.
 2. THE EXISTING CONTAINMENT BARRIAGE TO THE WELL PAD SHALL BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.
 3. THE EXISTING GRESSES TO THE WELL PAD SHALL HAVE THE NEAREST AVAILABLE BARRIAGE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.

AS-BUILT/PRODUCTION PLAN
 WILLIAM RODGERS OHI PAD 'A' AS-BUILT
 LIBERTY DISTRICT, OHIO COUNTY,
 WEST VIRGINIA
 DATE: 09/16/2015
 DRAWN BY: ADS
 JOB: 504-00203
 SCALE: AS SHOWN
 SHEET: 1 OF 6



NOTE: NO ADJUSTABLE REMEDIATED
THE PAD, THE EXISTING ROAD OR ARE IS
POSITIVE AND UP OUT OF THE PAD
AND ARE IS BLENDED INTO THE
ACCESS ROAD

WVDEP OOG
ACCEPTED AS-BUILT
9/16/2015

- RECOMMENDATIONS:**
1. INSPECT EXISTING PIPES FOR AN ANNUAL WITH AMMUNITION AND
INSPECTION PROCEDURES AS OUTLINED IN EAR CONTROL AND SITH PLAN.
 2. REPAIR & REPT. AS NEED. AS NEED. AS NEED.
 3. SEED AND MULCH ALL DISTURBED AREAS.
 4. DO NOT REMOVE PIPES UNTIL 75% UNIFORM PERSONAL GROWTH IS
ESTABLISHED.
 5. IF DISTURBANCE OCCURS DURING REMOVAL OF PIPES IMMEDIATELY
SEED AND MULCH DISTURBED AREAS.
- *PLACE STRUCTURAL SOIL FILL IN 9" FISH LOOSE LEFTS CONTACT TO A MINIMUM
OF 95% OF THE STANDARD DENSITY

WELL INFORMATION

WELL NO.	API NUMBER	WELL NO.	API NUMBER
2H	099-00984		
8H	099-00985		
20H	099-01192		

LEGEND

Symbol	Description
(Dashed line)	- AS-BUILT 7' CONTOURS
(Dashed line)	- AS-BUILT 10' CONTOURS
(Dashed line)	- CHAINLINE FENCE
(Dashed line)	- PRODUCTION AREA
(Dashed line)	- EXISTING GRAVEL
(Dashed line)	- EXISTING ACCESS ROAD CENTERLINE
(Dashed line)	- EXISTING DITCH
(Dashed line)	- LIMITS OF DISTURBANCE
(Dashed line)	- BILT SOCK
(Dashed line)	- SAND TRAP
(Dashed line)	- PROPOSED WELL
(Dashed line)	- EXISTING WELL
(Dashed line)	- EXISTING PAD BEAM

NOTES:

1. THE EXISTING CONTAINMENT BEAM AROUND THE WELL PAD SHALL
BE REPAIRED AS NECESSARY TO ENSURE 100% CONTAINMENT OF ALL
FLUIDS PRIOR TO DRILLING OPERATIONS.
2. THE EXISTING BARRIERS TO THE WELL PAD SHALL HAVE THE
CONTAINMENT OF ALL FLUIDS PRIOR TO DRILLING OPERATIONS.