

Via Federal Express

February 2, 2017

State of West Virginia
Department of Environmental Protection
Office of Oil & Gas
601 57th Street
Charleston, WV 25304

RE: SWN Production Company, LLC
Operator ID: 494512924
Form WR-35: Craig Strobe MSH 3H

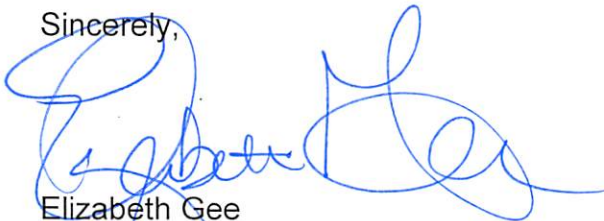
To Whom It May Concern:

Please find enclosed form WR-35 Well Operator's Report of Well Work for the Craig Strobe MSH 3H (API 47-051-01743). Also enclosed is an as-drilled plat for the same.

The subject wells were drilled and completed by Chesapeake Appalachia prior to the acquisition by SWN Production Company, LLC on December 23, 2014.

If you have any questions or require additional information, please contact me via email at liz_gee@swn.com or telephone at (832) 796-7632.

Sincerely,



Elizabeth Gee
Sr. Regulatory Analyst
West Virginia Division

/lg
Encl.

Received
Office of Oil & Gas

FEB 06 2017

AX RBDMS
5/25/17

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

State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-051-01743 County Marshall District Webster
Quad Majorsville Pad Name Craig Strope MSH Field/Pool Name North Victory
Farm name Russell W Strope Et Al Well Number Craig Strope MSH 3H
Operator (as registered with the OOG) SWN PRODUCTION COMPANY, LLC
Address PO BOX 12359 City SPRING State TX Zip 77391-2359

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing 4420159.200 Easting 535997.700
Landing Point of Curve Northing 4420288.727 Easting 535864.734
Bottom Hole Northing 4422537.376 Easting 535007.762

Elevation (ft) 1278.8 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary
Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)

Date permit issued 03/04/2014 Date drilling commenced _____ Date drilling ceased _____
Date completion activities began _____ Date completion activities ceased 09/18/2016
Verbal plugging (Y/N) _____ Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug
Freshwater depth(s) ft _____ Open mine(s) (Y/N) depths _____
Salt water depth(s) ft _____ Void(s) encountered (Y/N) depths _____
Coal depth(s) ft _____ Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) _____

Received
Office of Oil & Gas
FEB 06 2017

APPROVED

NAME: Jim Wickham
DATE: 3/2/17

Reviewed by:
[Signature]
06/09/2017

API 47-051 - 01743 Farm name Russell W Strope Et Al Well number Craig Strope MSH 3H

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/N) * Provide details below*
Conductor							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing		2.375	6991	New	P-110/4.70#		
Packer type and depth set							

Comment Details Drilled out CFP and set tubing only.

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor							
Surface							
Coal							
Intermediate 1							
Intermediate 2							
Intermediate 3							
Production							
Tubing							

Drillers TD (ft) _____ Loggers TD (ft) _____
 Deepest formation penetrated MARCELLUS Plug back to (ft) _____
 Plug back procedure _____

Kick off depth (ft) _____

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING _____

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

Received
Office of Oil & Gas
FEB 06 2017

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____



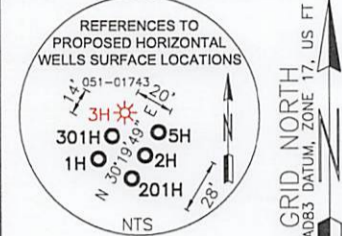
RETTEW Associates, Inc.
27 Travato Street, Suite 101
Bridgeport, WV 26330
Phone (800) 738-8395
Email: rettew@rettew.com
Website: www.rettew.com

Table with 5 columns: LINE, BEARING, DISTANCE, DESCRIPTION, MONUMENT. Contains survey data for lines L1 through L6.

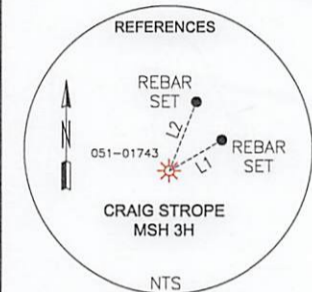
AS-DRILLED

Table with 3 rows: SURFACE HOLE LOCATION (SHL), LANDING POINT LOCATION (LPL), BOTTOM HOLE LOCATION (BHL). Each row includes UTM coordinates (Northings and Eastings).

Table with 4 columns: TRACT, SURFACE OWNER, TAX PARCEL, ACRES. Lists 16 tracts with owner names and acreage.



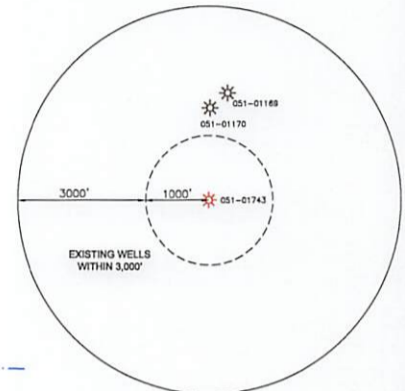
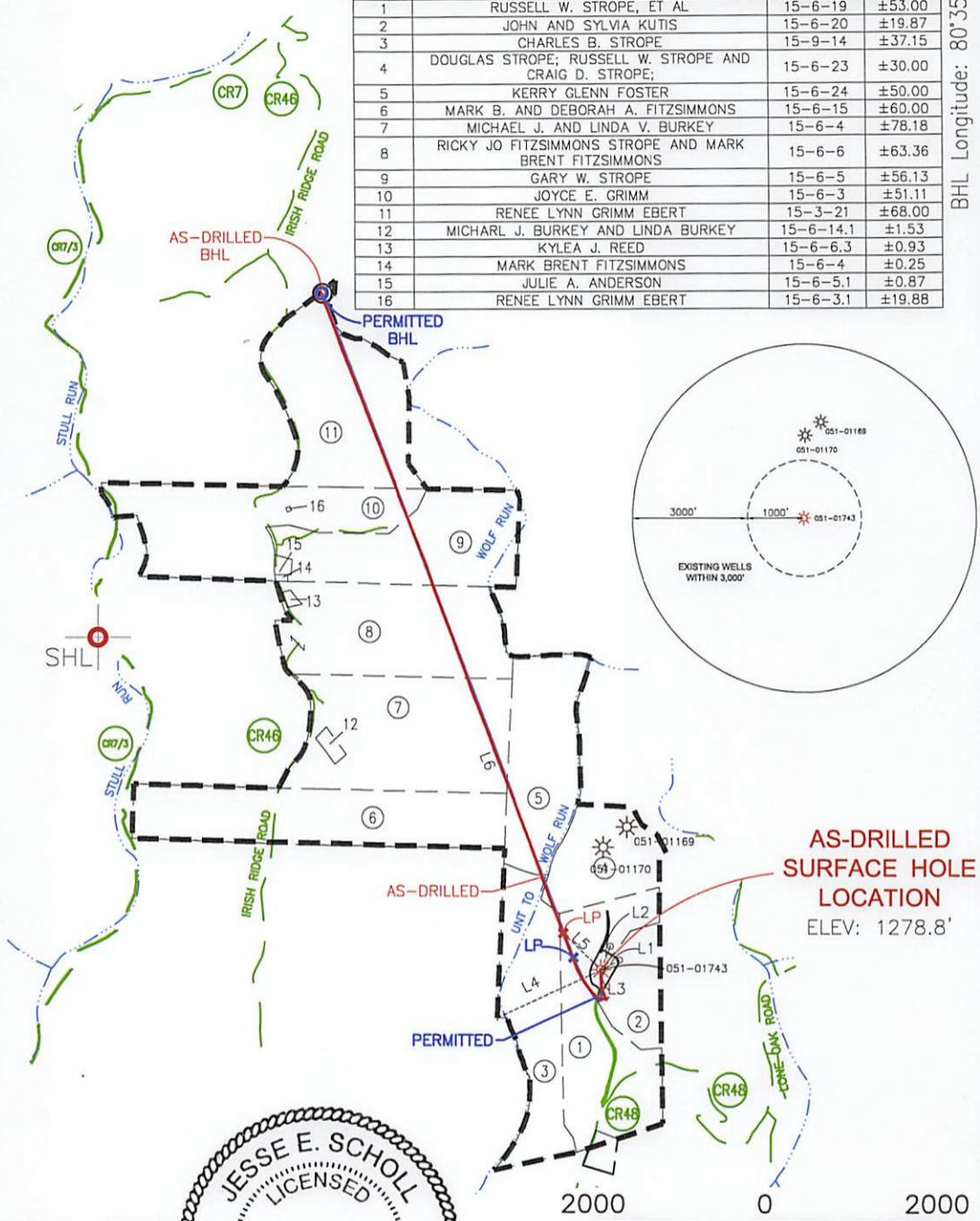
GRID NORTH
UTM, NAD83 DATUM, ZONE 17, US FT



- NOTES ON SURVEY
1. COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
2. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
3. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED CENTER OF PAD.
5. NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 250 FEET OF PROPOSED WELL.
6. NO PERENNIAL STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
7. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

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. 2313



COMPANY: SWN Production Company, LLC

Table with 3 columns: State of West Virginia logo/info, WVDEP office address, and well details (Operator's Well #, API Well #, State, County, Permit).

Form with well type (Oil, Gas, etc.), watershed (Upper Wheeling Creek), district (Webster), county (Marshall County), surface owner (Russell W Strope, et al), and target formation (Marcellus).

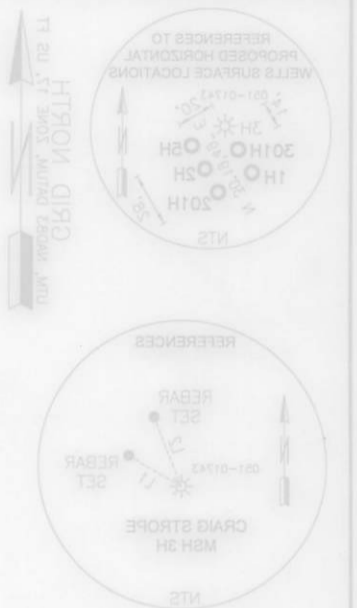
Form with well operator (SWN Production Company, LLC), designated agent (Dee Southall), and address (P.O. Box 1300, Jane Lew, WV 26378).

Table with 2 columns: LEGEND (Proposed surface hole, Existing well, etc.) and REVISIONS (Date: 12-22-2016, Drawn by: J. Ross).

RETTEW

RETTEW Associates, Inc.
 27 Travata Street, Suite 101
 Bridgeport, WV 26330
 Phone (800) 738-8388
 Email: rettew@rettew.com
 Website: www.rettew.com

SURFACE HOLE LOCATION (SHL)	UTM (NAD83, ZONE 17, METERS): NORTHING: 4420,159,200 EASTING: 525,997,700
LANDING POINT LOCATION (LPL)	UTM (NAD83, ZONE 17, METERS): NORTHING: 4420,288,727 EASTING: 525,884,724
BOTTOM HOLE LOCATION (BHL)	UTM (NAD83, ZONE 17, METERS): NORTHING: 4422,227,728 EASTING: 525,007,782



- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, ZONE 17, U.S. FOOT AND WELL DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE DATA.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS AND BUILDINGS WITHIN 525 FEET OF PROPOSED OR CENTER OF PAD.
 - NO WATER WELLS OR DEVELOPED SPRINGS WITHIN 200 FEET OF PROPOSED WELL.
 - NO PERMANENT STREAMS, LAKES, PONDS, RESERVOIRS OR WETLANDS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
 - NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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.

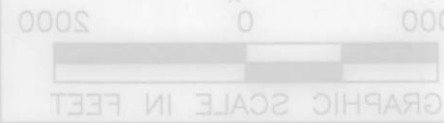


TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	RUSSELL W STROPE ET AL	12-8-19	±22.00
2	JOHN AND SYLVIA KUTIS	12-8-20	±19.87
3	CHARLES B STROPE	12-8-14	±27.15
4	DOUGLAS STROPE, RUSSELL W STROPE AND CRAIG D STROPE	12-8-22	±30.00
5	KERRY GLENN FORSTER	12-8-24	±50.00
6	MARK B AND DEBORAH A FITZSIMMONS	12-8-15	±60.00
7	MICHAEL J AND LINDA V BURKEY	12-8-4	±28.18
8	RICKY JO FITZSIMMONS STROPE AND MARK BRENT FITZSIMMONS	12-8-8	±62.38
9	GARY W STROPE	12-8-2	±50.12
10	JOYCE E GRIMM	12-8-3	±51.71
11	RENEE LYNN GRIMM EBERT	12-3-21	±69.00
12	MICHAEL J BURKEY AND LINDA BURKEY	12-8-14.1	±1.22
13	KYLEA J REED	12-8-9.2	±0.92
14	MARK BRENT FITZSIMMONS	12-8-4	±0.22
15	JULIE A ANDERSON	12-8-2.1	±0.81
16	RENEE LYNN GRIMM EBERT	12-8-2.1	±19.98

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 61°08'48" E	238.67	SHL TO REF. PNT.	1/2" x 1/2" REBAR SET
L2	N 20°22'58" E	283.88	SHL TO REF. PNT.	1/2" x 1/2" REBAR SET
L3	S 28°22'48" E	40.38	SHL TO LEASE BNDY.	
L4	N 62°08'08" E	1221.21	SHL TO UNIT BNDY.	
L5	S 42°44'12" E	608.12	SHL TO LP	
L6	N 20°14'44" W	7882.04	LP TO BHL	



AS-DRILLED SURFACE HOLE LOCATION
 ELEV: 1278.8'



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

API WELL #: 47
 STATE: WV
 COUNTY: MARSHALL
 PERMIT: 01743

OPERATOR'S WELL #: CRAIG STROPE MSH 3H

ELEVATION: (NAD 88, US FT)
 SOURCE OF GRADE GPS SURVEY
 ACCURACY: ±200

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

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

WATERSHED: UPPER WHEELING CREEK

DISTRICT: WEBSTER COUNTY: MARSHALL COUNTY

SURFACE OWNER: RUSSELL W STROPE ET AL

OIL & GAS ROYALTY OWNER: RUSSELL W STROPE, CRAIG D STROPE, DONNA J STROPE

ACREAGE: 23.00±

ACREAGE: 23.00±

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

As-Drilled (specify) OTHER CHANGE CLEAN OUT & REPLUG

TARGET FORMATION: MARCELLUS

ESTIMATED DEPTH: 8,811' TVD 15,247' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC
 ADDRESS: P.O. BOX 1300
 CITY: JANE LEW STATE: WV ZIP CODE: 26278

DESIGNATED AGENT: DEE SOUTHALL
 ADDRESS: P.O. BOX 1300
 CITY: JANE LEW STATE: WV ZIP CODE: 26278

DATE: 12-22-2016

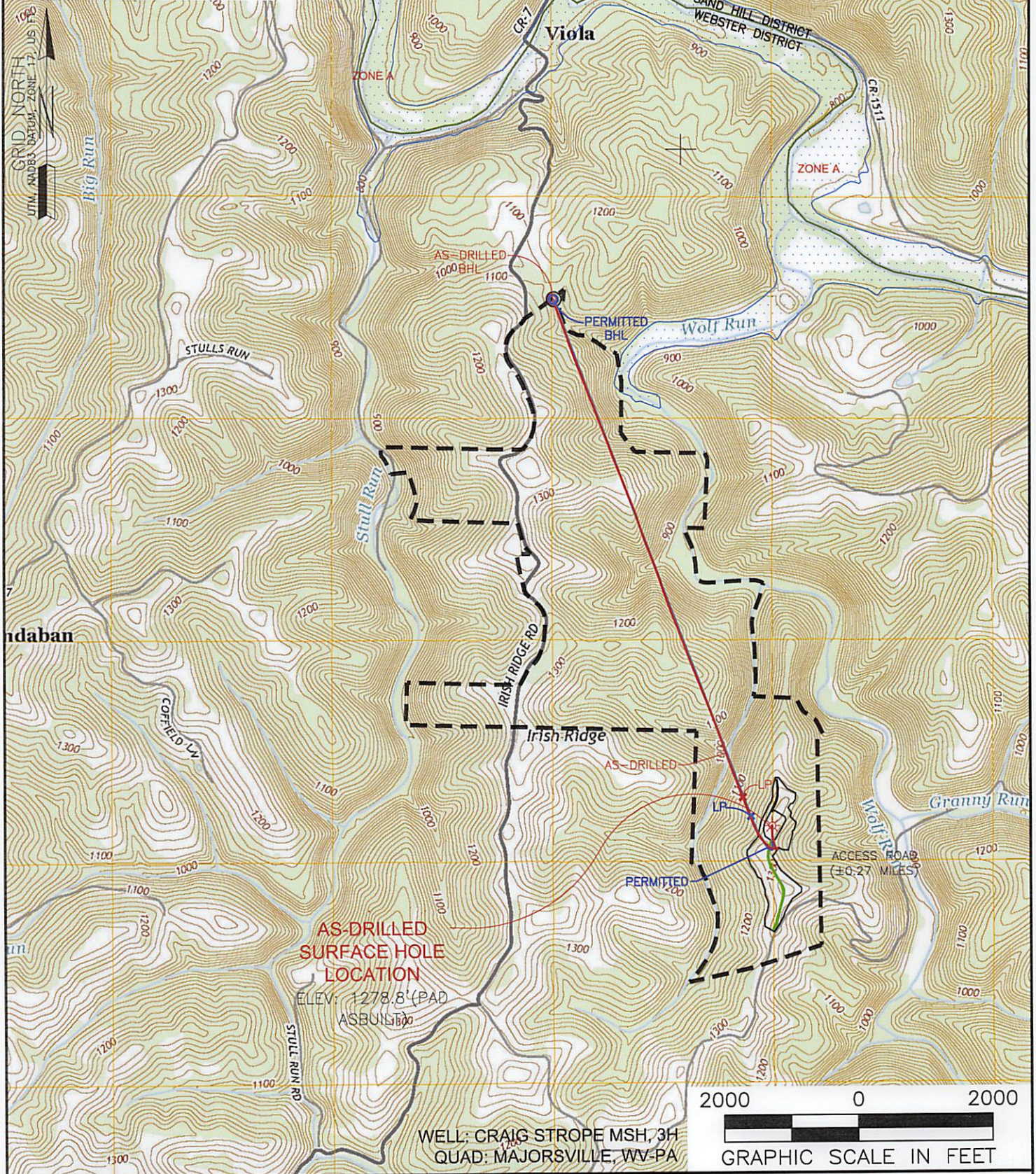
REVISIONS:

DRAWN BY: J. ROSS
 SCALE: 1" = 2000'
 DRAWING NO: 087589037
 WELL LOCATION PLAN

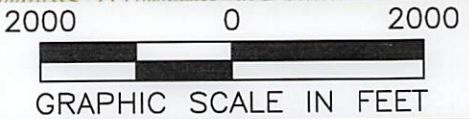
LEGEND:
 ○ PROPOSED SURFACE HOLE / BOTTOM HOLE
 ● EXISTING / PRODUCING WELLS
 ○ ABANDONED WELL
 × PLUGGED & ABANDONED WELL
 △ CUT CONDUCTOR
 --- SURFACE BOUNDARY
 --- LEASE BOUNDARY
 --- MARCELLUS DHP
 --- ABANDONED PATH
 --- TIE LINE

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

AS-DRILLED



WELL: CRAIG STROPE MSH, 3H
 QUAD: MAJORSVILLE, WV-PA



NAME AND DISTANCE TO THE NEAREST STREAM: UN NAMED TRIBUTARY OF WOLF RUN IS LOCATED ±0.21 MILES WEST 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 LARGER THAN 2500 SQ FT: >625 FEET		OPERATOR'S CRAIG STROPE MSH			
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF MARSHALL COUNTY, WEST VIRGINIA; MAP NUMBER 54051C0125E; EFFECTIVE DATE: SEPTEMBER 25, 2009. NO FLOOD ZONES.		LOCATION: WEBSTER DISTRICT, MARSHALL COUNTY, WEST VIRGINIA		DATE: 12-22-2016	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		MARCELLUS DHP ACCESS ROAD ACCESS ROAD TO PREV. SITE HIGHWAY/INTERSTATE COUNTY ROAD		REVISIONS: _____ _____ _____	
		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.930777' LONGITUDE: -80.578708'		06/09/2017	
		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 39.952246' LONGITUDE: -80.590165'		DATE: 12-22-2016	
		WELL #: 3H		DRAWN BY: J. ROSS	
		LOCATION: WEBSTER DISTRICT, MARSHALL COUNTY, WEST VIRGINIA		SCALE: 1" = 2000'	
		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 LARGER THAN 2500 SQ FT: >625 FEET		DRAWING NO: 087569037	
		FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF MARSHALL COUNTY, WEST VIRGINIA; MAP NUMBER 54051C0125E; EFFECTIVE DATE: SEPTEMBER 25, 2009. NO FLOOD ZONES.		TOPOGRAPHIC MAP	

