

RETTEW

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

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,449,177.482
EASTING: 532,122.837

LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,449,261.181
EASTING: 532,138.153

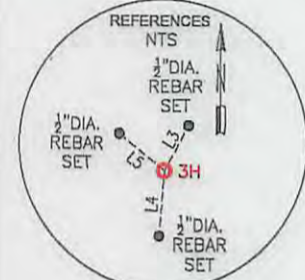
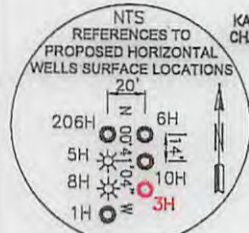
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,451,262.834
EASTING: 531,346.007

SHL Latitude: 40°12'30" 10,970'

BHL Latitude: 40°15'00" 1,854'

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 00°29'04" W	1112.02'	SHL TO LANDMARK	
L2	N 51°53'11" E	640.12'	SHL TO LANDMARK	
L3	N 28°33'51" E	177.15'	SHL TO REF. PNT.	1/2" REBAR SET
L4	S 03°10'27" W	280.20'	SHL TO REF. PNT.	1/2" REBAR SET
L5	N 45°51'43" W	212.82'	SHL TO REF. PNT.	1/2" REBAR SET
L6	S 17°29'34" W	539.32'	SHL TO HOME	CORNER HOME
L7	N 10°10'19" E	277.77'	SHL TO LP	
L8	N 21°34'42" W	7063.32'	LP TO BHL	

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

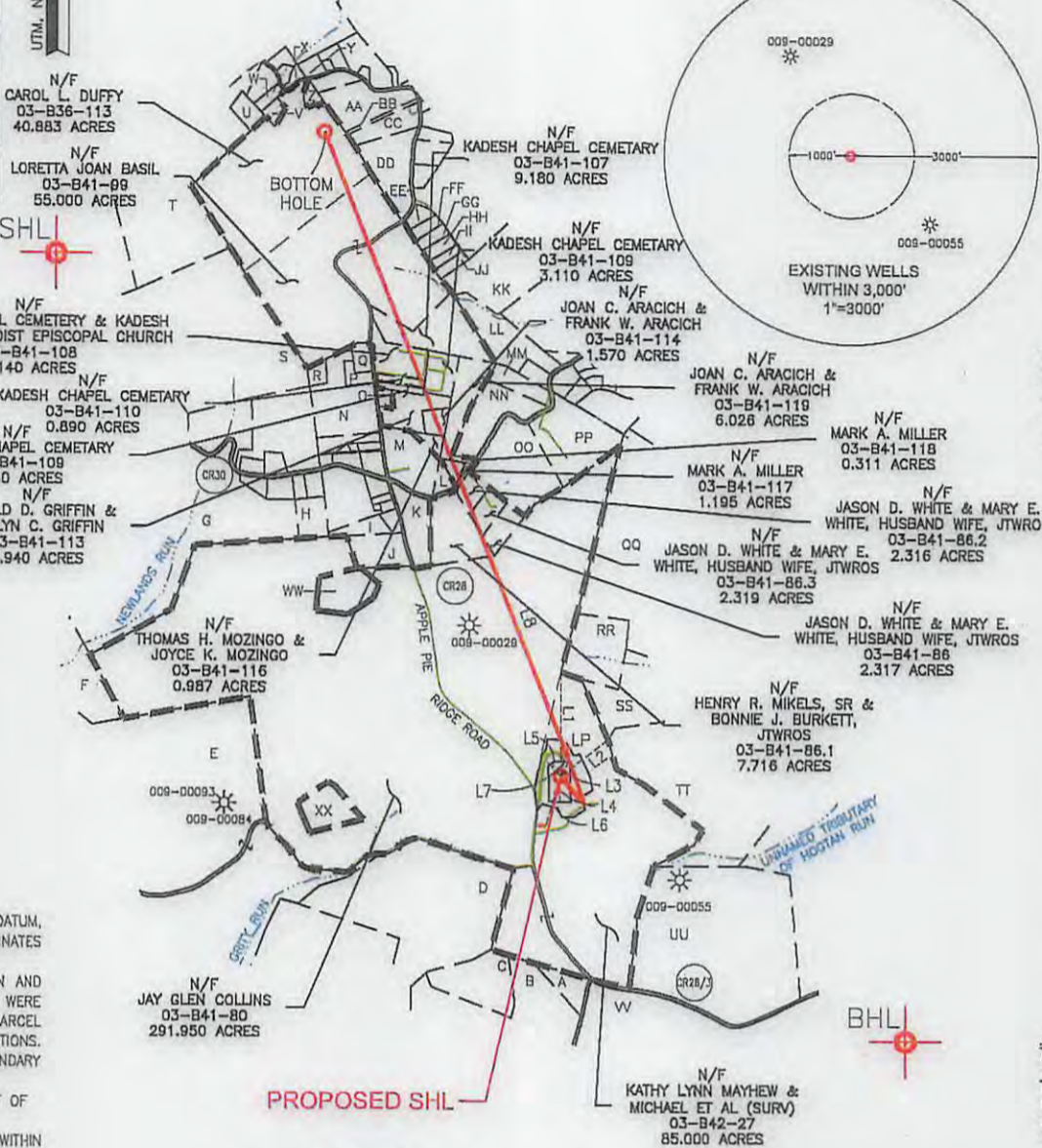
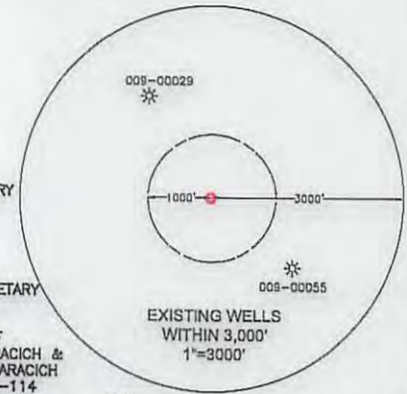


NOTES ON SURVEY

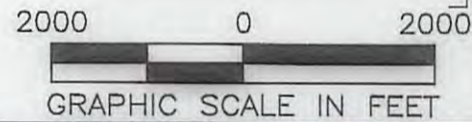
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- DWELLINGS AND BUILDINGS 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, 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 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



ADJOINING OWNER INFORMATION (SEE ADJOINING OWNER SHEET)



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

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	OPERATOR'S WELL #: KATHY MAYHEW BRK 3H
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY GRADE GPS SOURCE OF ELEVATION: (NAVD 88, US FT)	

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

WATERSHED: UPPER OHIO WHEELING ELEVATION: ±1281.1 (AS-BUILT)

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY, WV-PA & TILTONSVILLE, OH-WV

SURFACE OWNER: KATHY LYNN & MICHAEL MAYHEW, ETAL ACREAGE: ±85.00

OIL & GAS ROYALTY OWNER: KATHY LYNN & MICHAEL MAYHEW, ETAL ACREAGE: ±85.00

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: 5,944' IVD 13,474' IMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: DEE SOUTHALL

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

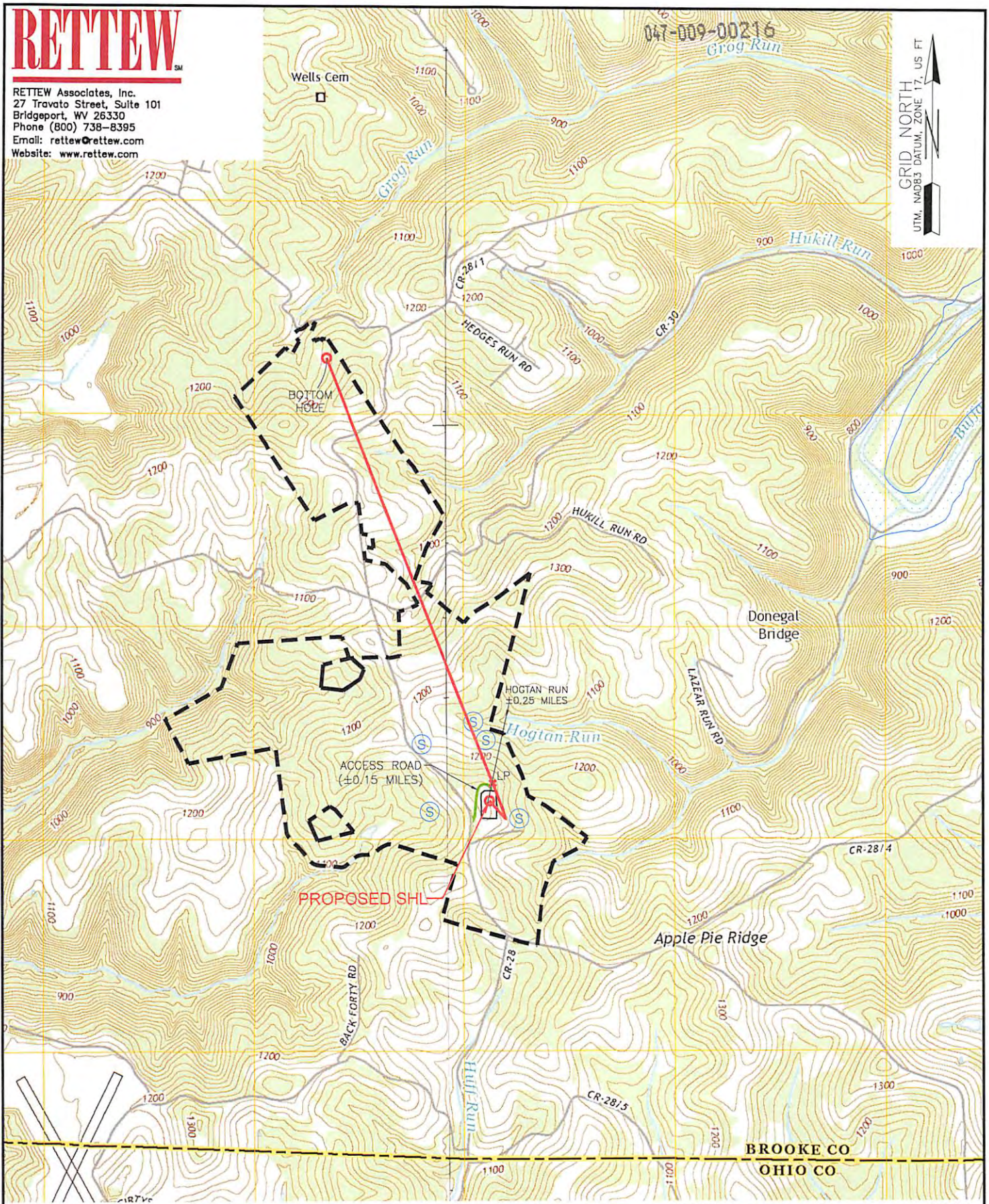
CITY: JANE LEW STATE: WV ZIP CODE: 26378 CITY: JANE LEW STATE: WV ZIP CODE: 26378

LEGEND: ● PROPOSED SURFACE HOLE / BOTTOM HOLE ✖ EXISTING / PRODUCING WELLHEAD ✖ ABANDONED WELL ✖ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	--- TIE LINE - - - LEASE BOUNDARY --- MARCELLUS DHP - - - ABANDONED PATH	REVISIONS: DATE: 06-06-2017 DRAWN BY: G.FLORES SCALE: 1" = 2000' DRAWING NO: 087569047 WELL LOCATION PLAT
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RETTEWSM

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



047-009-00216

WELL: KATHY MAYHEW BRK 3H
 QUAD: BETHANY, WV-PA &
 TILTONSVILLE, OH-WV



NAME AND DISTANCE TO THE NEAREST STREAM: HOGTAN RUN IS LOCATED ±0.25 MILES NE 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 KATHY MAYHEW BRK		WELL #: 3H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF BROOKE COUNTY, WEST VIRGINIA; MAP NUMBERS 54009C0130D & 54009C0140D; EFFECTIVE DATE: APRIL 19, 2010. NO FLOOD ZONES ARE SITUATED WITHIN THE UNIT.		LOCATION: BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.192374° LONGITUDE: -80.622616°	
LEGEND: 		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.211191° LONGITUDE: -80.631641°		REVISIONS: DATE: 06-06-2017	
				DRAWN BY: G.FLORES SCALE: 1" = 2000' DRAWING NO: 087569047 TOPOGRAPHIC MAP	

09/15/2017