

RETTEW

RETTEW Associates, Inc.
27 Travato Street, Suite 101
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Phone (800) 738-8395
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Website: www.rettetw.com

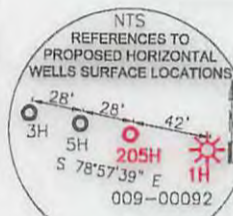
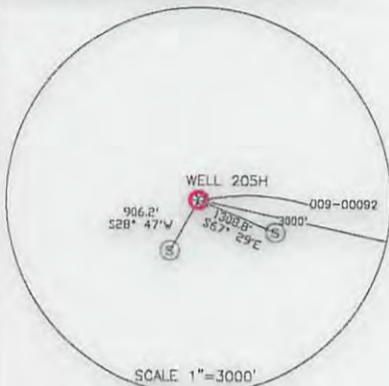
Latitude: 40°12'30" 8,993' 7,543'

BHL Latitude: 40°12'30"

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 77°01'57" E	964.65'	SHL TO LANDMARK	
L2	S 02°22'43" W	1569.54'	SHL TO LANDMARK	
L3	N 38°16'08" E	201.38'	SHL TO REF. PNT.	1/2"Ø REBAR/CAP
L4	S 38°08'56" E	251.46'	SHL TO REF. PNT.	1/2"Ø REBAR/CAP
L5	S 67°59'33" W	286.08'	SHL TO REF. PNT.	1/2"Ø REBAR SET

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

SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,447,432.420
	EASTING: 536,704.883
LANDING POINT LOCATION (LPL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,447,597.061
	EASTING: 537,169.271
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,449,847.974
	EASTING: 536,263.029



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.
- NO DWELLINGS AND BUILDINGS WITHIN 625 FEET OF PROPOSED OF 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



(+) 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

OPERATOR'S WELL #: JOHN HUPP BRK 205H
API WELL #: 49 009 00184
STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO NORTH ELEVATION: ±1,275.6 (AS-BUILT)

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY, WV-PA

SURFACE OWNER: JOHN W. HUPP & LINDA H. DOUBLE ACREAGE: ±184.46

OIL & GAS ROYALTY OWNER: JOHN W. HUPP & LINDA H. DOUBLE ACREAGE: ±184.46

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: 6,233' TVD 14,903' 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:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		10-13-2016
⊙ EXISTING / PRODUCING WELLHEAD	— ACCESS ROAD	
⊙ EXISTING SPRING	- - - TIE LINE	DRAWN BY: B. HERMAN
⊙ EXISTING WATER WELL	- - - LEASE BOUNDARY	SCALE: 1" = 2000'
	- - - MARCELLUS DHP	DRAWING NO: 087569048
		WELL LOCATION PLAT



ADJOINING OWNERS

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 Website: www.retew.com

TRACT	SURFACE OWNERS	TAX PARCEL	ACRES
A	SCOTT SONDA AND MARK SONDA	03-B48-20	139.00±
B	SCOTT SONDA AND MARK SONDA	03-L2-1	155.38±
C	SCOTT SONDA AND MARK SONDA	03-L2-2	185.97±
D	KEVIN K. AND CYNTHIA R. MCGEE	03-L2-15-1	29.36±
E	LARRY G. BALL	03-L1-38-3	38.493±
F	RICK A. JOSEPH AND LURA JOSEPH, HIS WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	03-B47-45	0.66±
G	WINDSOR POWER HOUSE COAL COMPANY	03-B48-7	0.49±
H	WILLIAM BRITT COX	03-B48-8	79.27±
I	LAWRENCE RAY AND JUDITH A. PYLE	03-B48-18	110.49±
J	CHARLES BONAR AND CHARLOTTE BONAR, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	03-B48-15	34.30±
K	CHARLES BONAR AND CHARLOTTE BONAR, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	03-B48-14	10.90±
L	CHARLES BONAR AND CHARLOTTE BONAR, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	03-B48-1	48.75±
M	WILLIAM BRITT COX	03-B43-21	44.73±
N	MARION PYLE STONE	03-B43-20	1.96±
O	MARION PYLE STONE	03-B43-19	1.00±
P	HUGH ALLEN AND SILVEA MAZZELLA WHITEHEAD	03-B43-18	1.00±
Q	JOYCE ANN MCGEEHAN	03-B43-17	45.47±
R	JOYCE MCGEEHAN	03-B43-23	1.29±
S	THOMAS FLAHERTY	03-B43-24	0.96±
T	MARY WELLS CHAMBERS, WIDOW	03-B43-12	2.20±
U	MARY WELLS CHAMBERS, WIDOW	03-B43-11	1.07±
V	MARY WELLS CHAMBERS, WIDOW	03-B43-10	0.03±
W	DAVID LEE BECK	03-B43-9	0.88±
X	WINDSOR POWER HOUSE COAL COMPANY	03-B43-8	1.19±
Y	JOHN BECK	03-B43-6	12.81±
Z	BRIAN LEE BECK	03-B43-7	1.23±
AA	BETHANY VOLUNTEER FIRE DEPARTMENT	03-B43-63	0.492±
BB	TRUSTEES OF BETHANY COLLEGE	03-B38-31	822.26±
CC	GENE CHARLES VALENTINE, TRUSTEE OF GENE CHARLES VALENTINE TRUST, DATED 11/26/86	03-B43-33	151.494±
DD	SAMUEL E. JONES AND JUDITH F. JONES, HUSBAND AND WIFE, AS JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	03-B43-60	164.74±
EE	ROBERT M. & CHARLOTTE A. CHAMBERS	03-B48-23	7.26±
FF	ROBERT M. & CHARLOTTE A. CHAMBERS	03-B48-24	110.32±
GG	WINDSOR POWER HOUSE COAL COMPANY	03-B48-21	0.50±

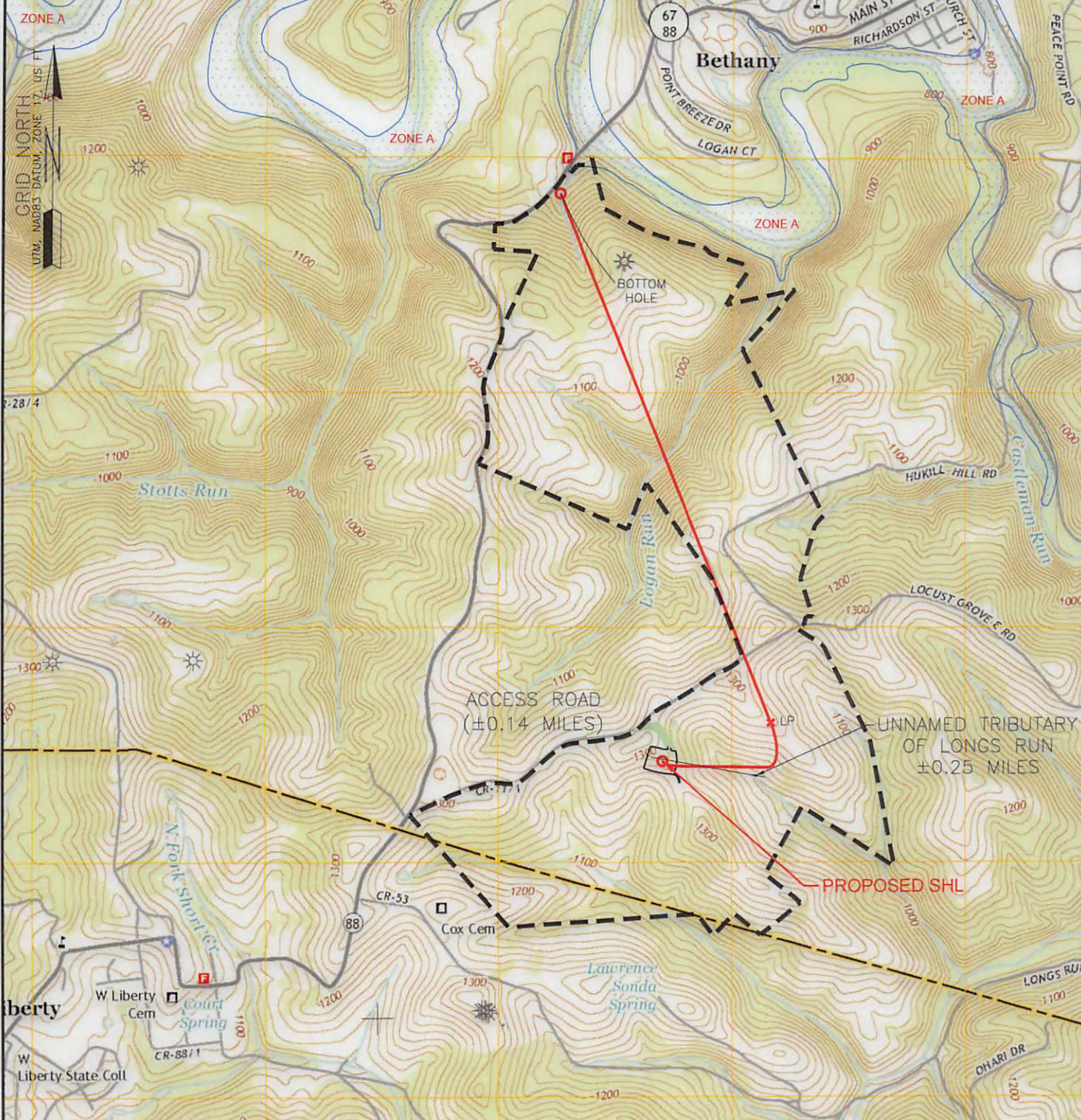
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02/03/2017

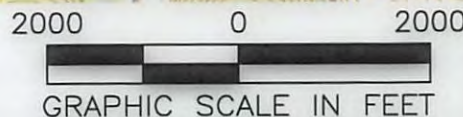
REVISIONS:	COMPANY:	SWN Production Company, LLC	SWN Production Company™
	OPERATOR'S	JOHN HUPP BRK	DATE: 10-13-2016
	WELL #:	205H	DRAWN BY: B. HERMAN
	LOCATION:	BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA	SCALE: N/A
			DRAWING NO:087569048
			ADJOINING OWNERS

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WELL: JOHN HUPP BRK 205H
 QUAD: BETHANY, WV-PA



NAME AND DISTANCE TO THE NEAREST STREAM: UN-NAMED TRIBUTARY TO LONGS RUN IS LOCATED ±0.25 MILES SOUTH EAST 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 JOHN HUPP BRK		WELL #: 205H 9-00184	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF BROOKE COUNTY, WEST VIRGINIA; MAP NUMBERS 54009C0130D, 54009C0135D, 54009C0140D, 54009C0141D, 54009C0145D; EFFECTIVE DATE: APRIL 19, 2010. NO FLOOD ZONES ARE SITUATED WITHIN THE UNIT.		LOCATION: BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: 02/03/2017	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ☼ EXISTING / PRODUCING WELLHEAD --- LEASE BOUNDARY --- ACCESS ROAD --- MARCELLUS DHP --- HIGHWAY/INTERSTATE --- COUNTY ROAD		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.198246° LONGITUDE: -80.573940°		REVISIONS: DATE: 10-13-2016	
				DRAWN BY: B. HERMAN SCALE: 1" = 2000' DRAWING NO: 087569048 TOPOGRAPHIC MAP	