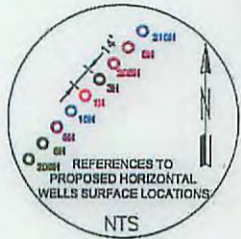


RETTEW

RETTEW Associates, Inc.
27 Travato Street, Suite 101
Bridgeport, WV 26330
Phone (800) 738-8365
Email: rette@rette.com
Website: www.rette.com



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

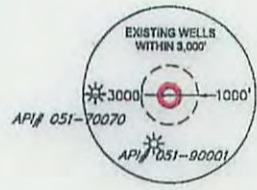
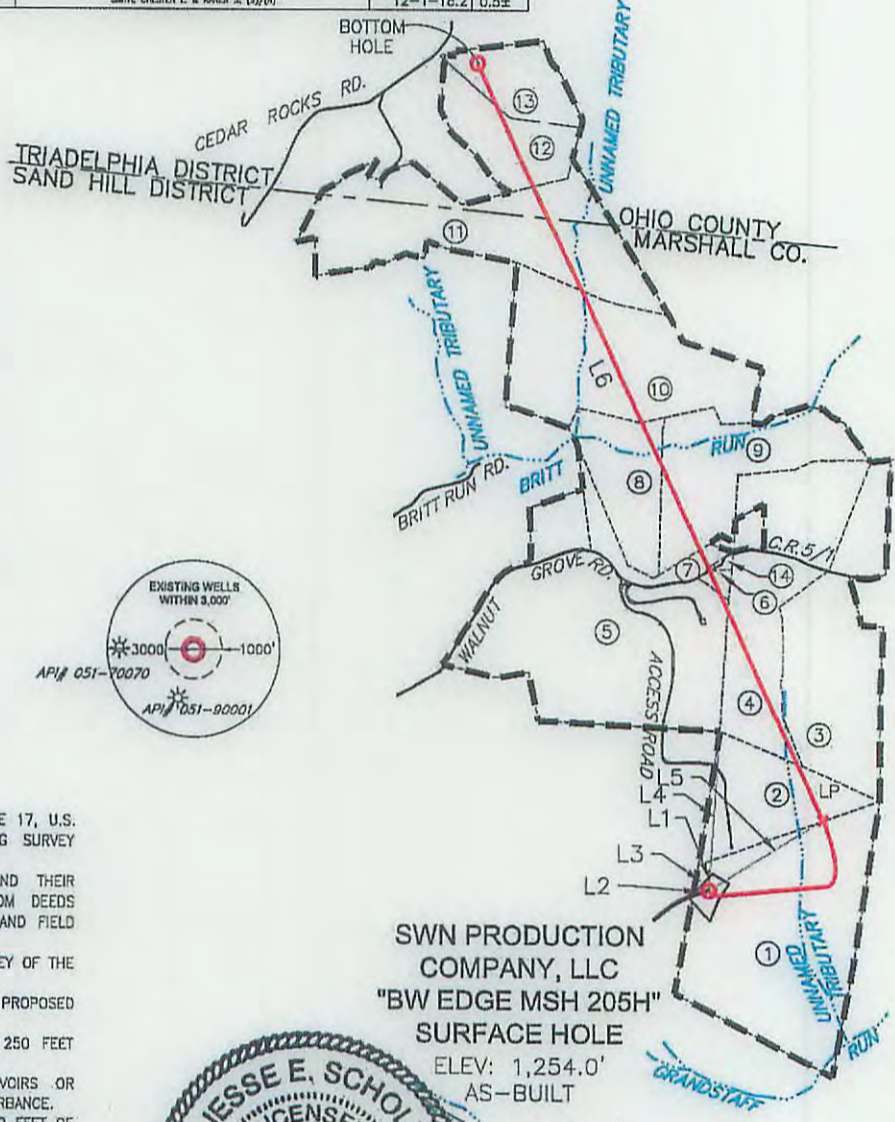
LINE	DESCRIPTION	DISTANCE	DESCRIPTION	MONUMENT
L1	N00°41'32"E	195'	SHL TO REF. PIN	IRON PIN
L2	S81°57'39"W	207'	SHL TO REF. PIN	IRON PIN
L3	N43°24'09"W	193'	SHL TO LANDMARK	POST
L4	N03°41'47"E	1,639'	SHL TO LANDMARK	REBAR
L5	N42°32'13"E	1,486'	SHL TO LP	
L6	N24°41'10"W	8,129'	LP TO BHL	

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	EDGE, WILLIAM F. JR. & BARBARA (S)/FLETCHER, JOSEPHINE (R)	12-9-B	67.8±
2	EDGE, WILLIAM F. JR. & BARBARA (S)/FLETCHER, JOSEPHINE (R)	12-9-B.1	28.0±
3	GZA, CHESTER A. (S)/R	12-1-16	53.1±
4	GZA, CHESTER A. (S)/R	12-1-15	53.4±
5	SCHILLHASE, MARK A. & ANFERA K. (S)/R	12-1-18	93.8±
6	SCHILLHASE, MARK A. & ANFERA K. (S)/R	12-1-18.5	0.9±
7	HILLER, VOLET B. (S)/R	12-1-18.3	8.0±
8	MARGARET, PETER E. & SUSAN K. (S)/R	12-1-12	25.4±
9	MCHUGH, KEVIN L. (S)/R	12-1-14	39.0±
9	HOLMES, CAROL ANN (S)/R	12-1-14	39.0±
10	COFFIELD, MICHAEL L. & TYLER R. (S)/R	12-1-13	71.6±
11	HARDMAN, WALTER LEWIS & GLORIA LOUISE (S)/R	12-1-10.1	47.8±
12	SEALL, GREGORY W. & JILL ANN (S)/R	T17-8.3	20.0±
13	SEALL, GREGORY W. & JILL ANN (S)/R	T17-9.1	17.6±
14	SMITH, CHESTER L. & WANDA S. (S)/R	12-1-18.2	0.5±

Latitude: N 40°02'30"

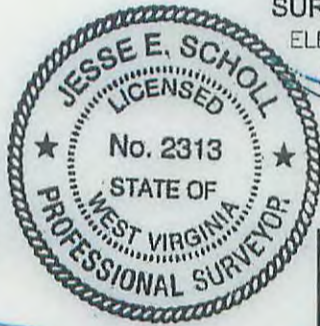
Longitude: W 80°37'30"

SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.006578° LONGITUDE: -80.627477°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,529,346.803° EASTING: 1,744,732.204°
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,428,553.763 EASTING: 531,795.439
"LANDING POINT" LOCATION (LPL):
GEOGRAPHIC (NAD83): LATITUDE: 40.008566° LONGITUDE: -80.623276°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,530,075.630° EASTING: 1,745,905.660°
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,428,775.910 EASTING: 532,153.109
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.029894° LONGITUDE: -80.635887°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,537,827.590° EASTING: 1,742,342.430°
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,431,138.712 EASTING: 531,067.035



- 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 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.



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

P.S. 2313	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	OPERATOR'S WELL #: BW EDGE MSH 205H
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	API WELL #: 47 051 01843H6A MOD

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: 1,254.0' AS-BUILT

DISTRICT: SAND HILL COUNTY: MARSHALL QUADRANGLE: WHEELING, W.VA-OHIO

SURFACE OWNER: EDGE, WILLIAM F. JR. & BARBARA ACREAGE: 87.8±

OIL & GAS ROYALTY OWNER: FLETCHER, JOSEPHINE ACREAGE: 115.8±

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: 6,377' TD 15,328' TMD

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

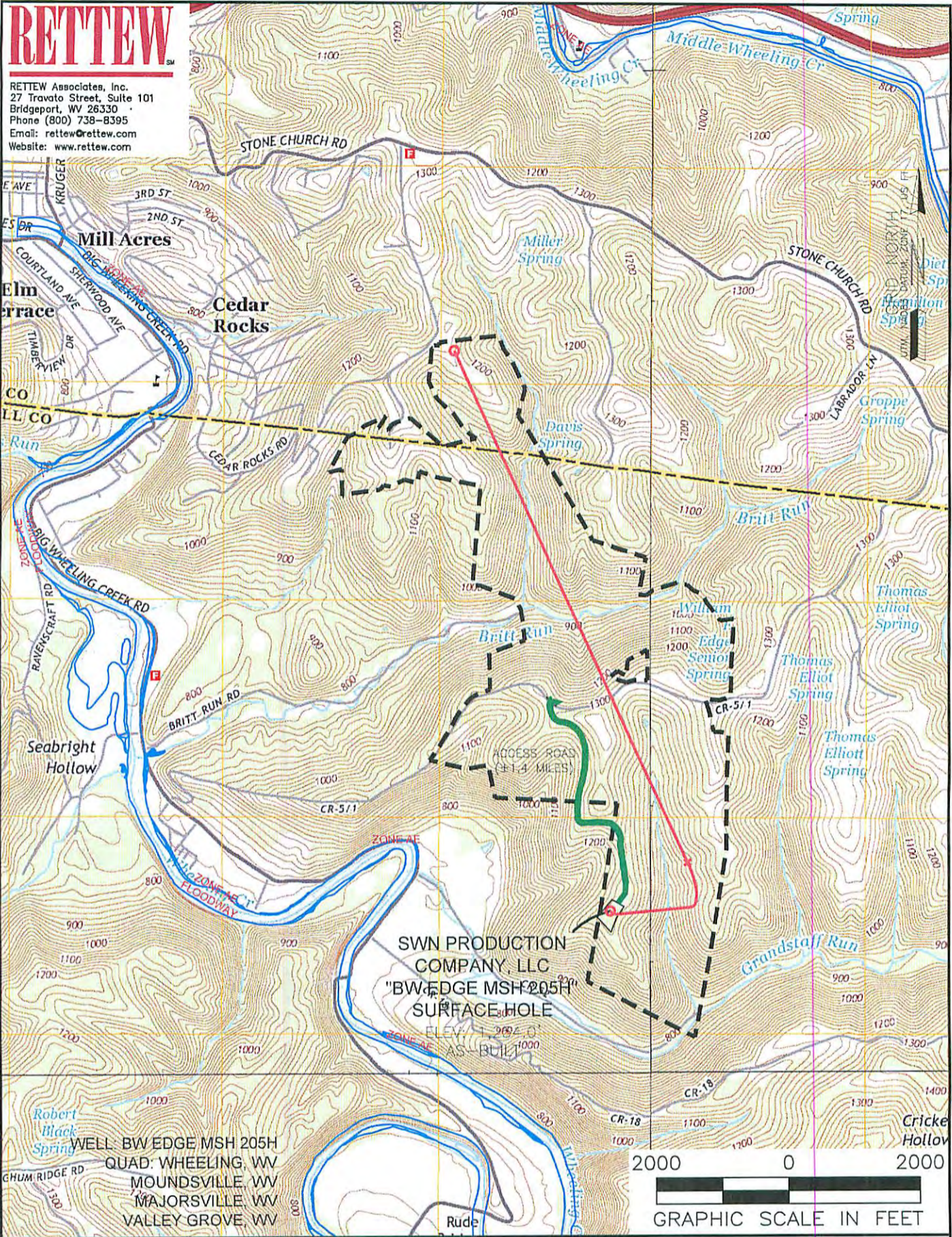
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300

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

LEGEND:	REVISIONS:	DATE: 01-11-2016
PROPOSED SURFACE HOLE / BOTTOM HOLE		
EXISTING / PRODUCING WELLHEAD		
ABANDONED WELL		
PLUGGED & ABANDONED WELL		
CUT CONDUCTOR		
LEASE BOUNDARY		
MARCELLUS DHP		
ABANDONED PATH		

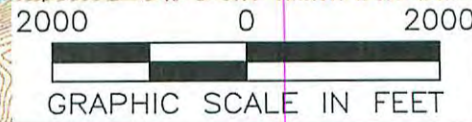


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 Website: www.rettetw.com



SWN PRODUCTION COMPANY, LLC
"BW EDGE MSH 205H"
SURFACE HOLE
 ELEV. 2094.0'
 AS-BUILT

WELL: BW EDGE MSH 205H
 QUAD: WHEELING, WV
 MOUNDSVILLE, WV
 MAJORSVILLE, WV
 VALLEY GROVE, WV



NAME AND DISTANCE TO THE NEAREST STREAM: UNNAMED TRIBUTARY TO GRANDSTAFF RUN IS LOCATED ±0.17 MILES SE. OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.		COMPANY: SWN Production Company, LLC		SWN Production 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: BW EDGE MSH WELL #: 205H		LOCATION: SAND HILL DISTRICT, MARSHALL COUNTY, WEST VIRGINIA	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM UNINCORPORATED AREA OF MARSHALL COUNTY, WEST VIRGINIA; MAP NUMBER 54051C0019E, EFFECTIVE DATE SEPTEMBER 25, 2009.				SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.006578° LONGITUDE: -80.627477°		Received Office of Oil & Gas 01/22/2016	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ✖ EXISTING / PRODUCING WELLHEAD ✖ ABANDONED WELL ✖ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR				BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.029894° LONGITUDE: -80.635887°		JAN 13 2016	
LEGEND (continued): (S) EXISTING SPRING (W) EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD				REVISIONS:		DATE: 01-11-2016	
DRAWN BY: J. AIKEN SCALE: 1" = 2000' DRAWING NO: 087569005 TOPOGRAPHIC MAP				PROPERTY NUMBER 2501163506 PAD ID 3001161674			