

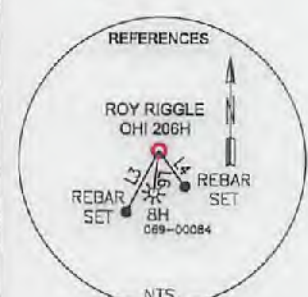
# RETTEW

RETTEW Associates, Inc.  
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 Bridgeport, WV 26330  
 Phone (800) 738-8395  
 Email: rettetw@rettetw.com  
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<b>SURFACE HOLE LOCATION (SHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,684.892 EASTING: 540,548.806
<b>LANDING POINT LOCATION (LPL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,444,297.399 EASTING: 539,990.533
<b>BOTTOM HOLE LOCATION (BHL):</b>
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,442,114.704 EASTING: 540,899.189

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

LINE	DESCRIPTION	DISTANCE	DESCRIPTION	MONUMENT
L1	N 43°28'58" E	1,947.44'	SHL TO LANDMARK	PARCEL CORNER
L2	S 79°59'23" W	1,033.89'	SHL TO LANDMARK	PARCEL CORNER
L3	S 31°47'55" W	84.26'	SHL TO REF. PNT.	1/2" REBAR SET
L4	S 20°52'28" E	47.92'	SHL TO REF. PNT.	1/2" REBAR SET
L5	S 85°14'09" W	2,229.57'	SHL TO LP	
L6	S 31°35'51" W	28.01'	SHL TO BH	



### 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.



P.S. 2241



(+) 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)

ADJOINING OWNER INFORMATION (SEE ADJOINING OWNER SHEET)

2000 0 2000

GRAPHIC SCALE IN FEET

COMPANY: **SWN** Production Company, LLC

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

WATERSHED: CASTLEMAN RUN ELEVATION: ±1,252.2' (AS-BUILT)

DISTRICT: LIBERTY COUNTY: OHIO QUADRANGLE: BETHANY, WV-PA

SURFACE OWNER: ROY & DEBRA R. RIGGLE ACREAGE: 171.18±

OIL & GAS ROYALTY OWNER: ROY & DEBRA R. RIGGLE ACREAGE: 171.18±

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: 6,519' TVD 14,990' IMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378

DESIGNATED AGENT: DEE SOUTHALL ADDRESS: P.O. BOX 1300 CITY: JANE LEW STATE: WV ZIP CODE: 26378

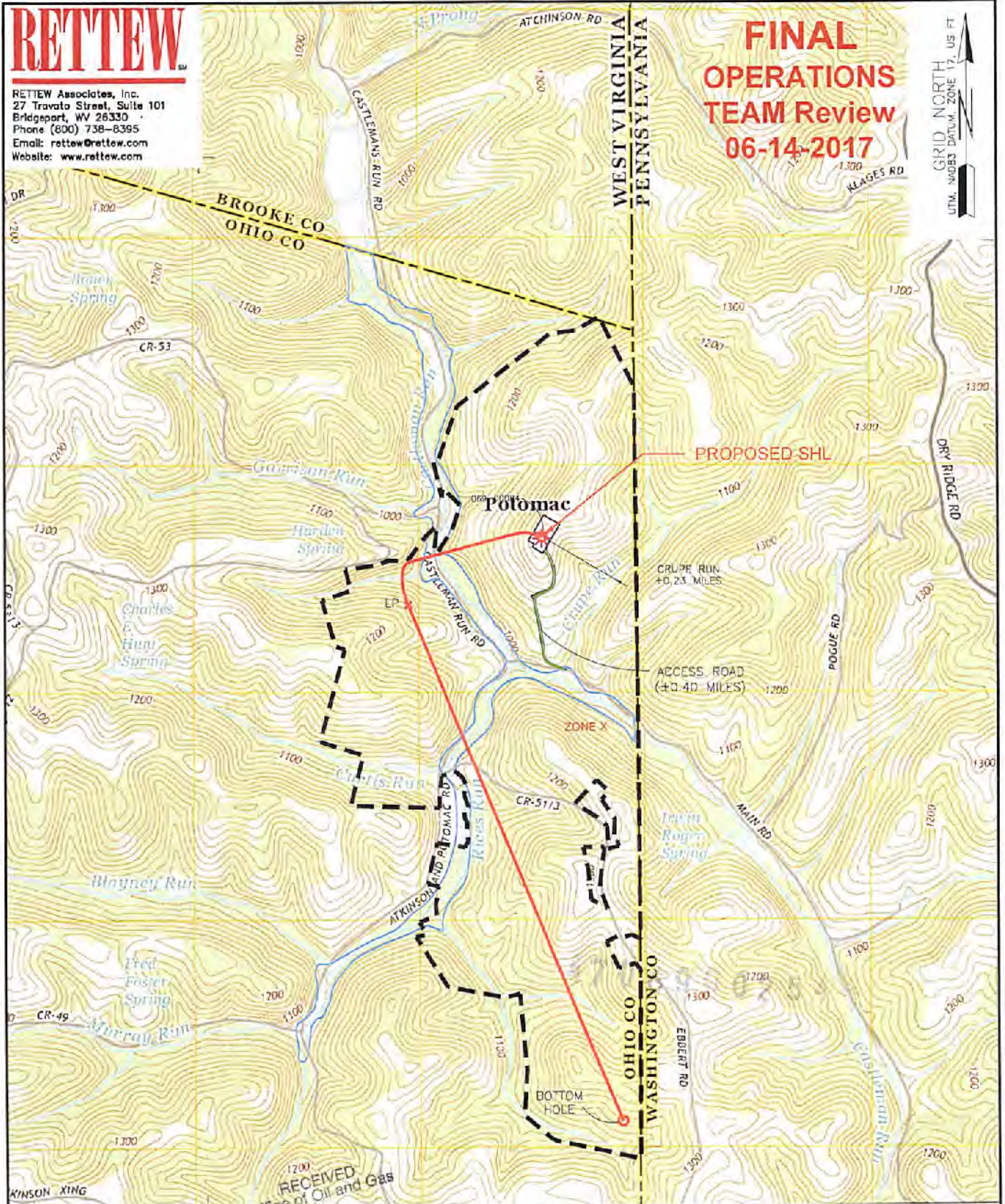
<b>LEGEND:</b>	(S) EXISTING SPRING	REVISIONS:	DATE: 08-14-2017
(+) PROPOSED SURFACE HOLE / BOTTOM HOLE	(W) EXISTING WATER WELL		
(*) EXISTING / PRODUCING WELLHEAD	--- TIE LINE		
(X) ABANDONED WELL	--- LEASE BOUNDARY		
(X) PLUGGED & ABANDONED WELL	--- DHP		
(Δ) CUT CONDUCTOR	--- ABANDONED PATH		



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**FINAL  
OPERATIONS  
TEAM Review**  
**06-14-2017**

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



WV Department of Environmental Protection  
WELL: ROY RIGGLE OHI 206H  
QUAD: BETHANY, WV-PA

NAME AND DISTANCE TO THE NEAREST STREAM: CRUPE RUN IS LOCATED ±0.23 MILES SE OF THE CENTER OF THE DRILL PAD.		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: >325 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >525 FEET		OPERATOR'S: ROY RIGGLE OHI WELL #: 206H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF OHIO COUNTY, WEST VIRGINIA; MAP NUMBER 54069C00450; EFFECTIVE DATE: JULY 17, 2005.		LOCATION: LIBERTY DISTRICT, OHIO COUNTY, WEST VIRGINIA	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ✕ EXISTING / PRODUCING WELL HEAD ✕ ABANDONED WELL ✕ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.151534° LONGITUDE: -80.523912°	
D-HP ACCESS ROAD ACCESS ROAD TO PREV. SITE HIGHWAY/INTERSTATE COUNTY ROAD		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.128362° LONGITUDE: -80.519962°	
REVISIONS:		DATE: 05-30-2017	
DRAWN BY: W. MCCLEAF SCALE: 1" = 2000' DRAWING NO: 087569043 TOPOGRAPHIC MAP		12/29/2017	