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LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S78°11'35"E	936.17	SHL TO LANDMARK	
L2	S03°17'38"W	1545.83'	SHL TO LANDMARK	
L3	N45°42'09"W	204.96'	SHL TO REF. PNT.	1/2" REBAR/CAP
L4	S37°17'44"E	217.27'	SHL TO REF. PNT.	1/2" REBAR/CAP
L5	S74°06'04"W	300.41'	SHL TO REF. PNT.	1/2" REBAR SET

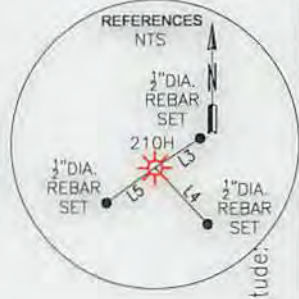
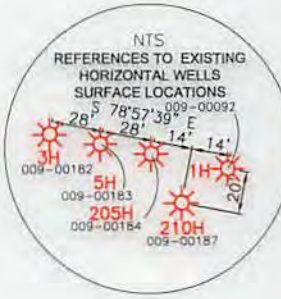
AS-DRILLED

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,447,424.827 EASTING: 536,712.101
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,447,493.48 EASTING: 537,159.886
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,445,793.815 EASTING: 537,814.634
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,447,424.827 EASTING: 536,712.101
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,447,518.334 EASTING: 537,149.678
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,445,790.870 EASTING: 537,814.318

AS-DRILLED SURFACE HOLE LOCATION
ELEV: 1,275.7'



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.
 - 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. 2241 *Craig West*

COMPANY: **SWN** Production Company, LLC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS
WVDEP
 OFFICE OF OIL & GAS
 601 57TH STREET
 CHARLESTON, WV 25034

OPERATOR'S WELL #: JOHN HUPP BRK 210H
 API WELL #: 47 STATE 009 COUNTY 00187 PERMIT

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

WATERSHED: UPPER OHIO NORTH ELEVATION: ±1,275.7 (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

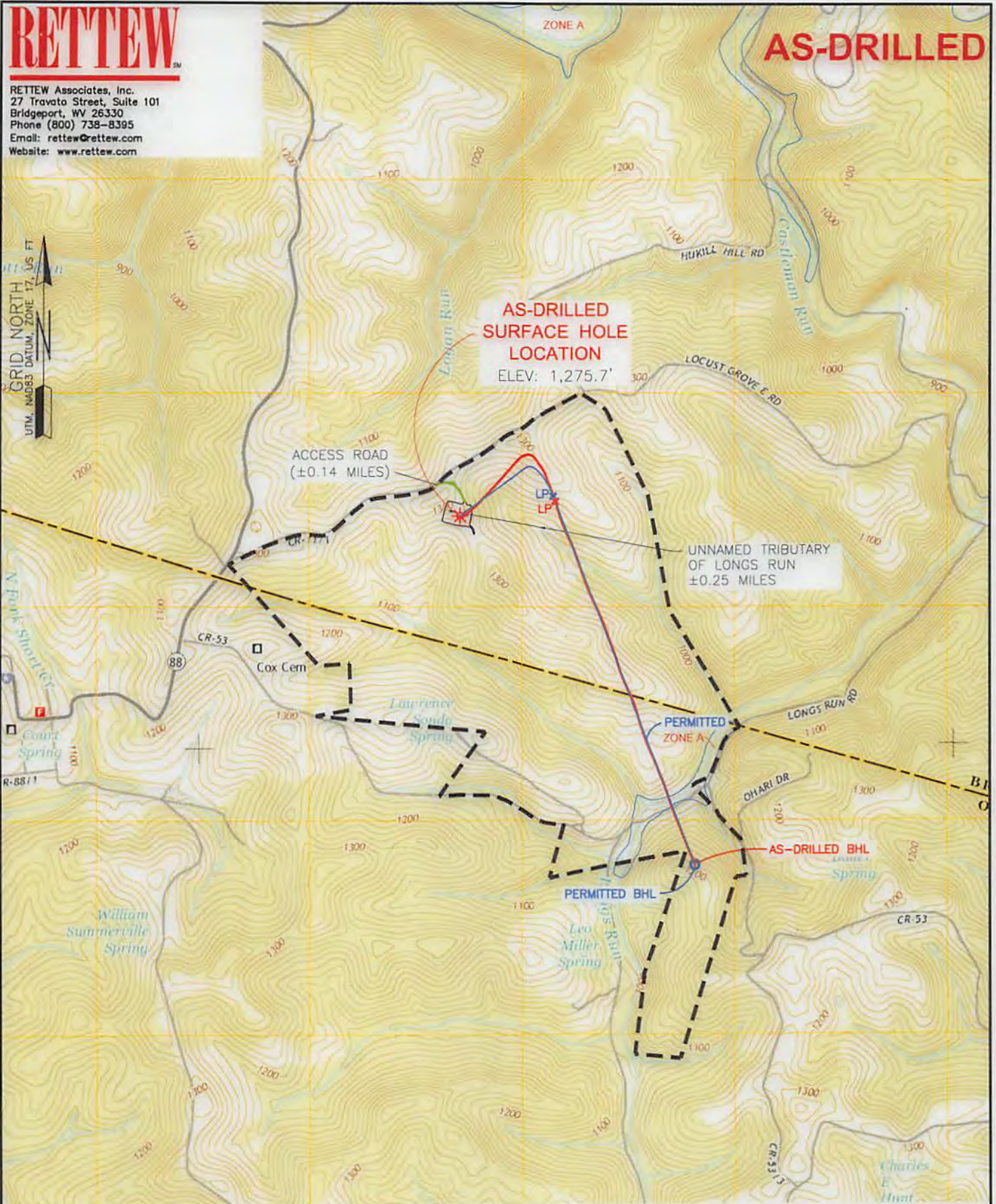
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY) **As-Drilled**

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 6,355' TVD 13,049' 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:	<ul style="list-style-type: none"> (S) EXISTING SPRING (W) EXISTING WATER WELL EXISTING / PRODUCING WELLHEAD ABANDONED WELL PLUGGED & ABANDONED WELL PERMITTED NOT DRILLED CUT CONDUCTOR --- LEASE BOUNDARY --- ASDRILLED WELLPATH --- PERMITTED WELLPATH --- STREAM 	REVISIONS: DATE: 11-13-2017 DRAWN BY: G.FLORES SCALE: 1" = 2000' DRAWING NO: 087569048 WELL LOCATION PLAT
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GRID NORTH
 UTM, NAD83 DATUM, ZONE 17, US FT



2000 0 2000

WELL: JOHN HUPP BRK 210H
 QUAD: BETHANY, WV-PA

GRAPHIC SCALE IN FEET

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 #: 210H	
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.		LOCATION: BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.176395 LONGITUDE: -80.568802'	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE * EXISTING / PRODUCING WELLHEAD --- LEASE BOUNDARY --- ASDRILLED WELLPATH --- PERMITTED WELLPATH --- ACCESS ROAD --- HIGHWAY/INTERSTATE --- COUNTY ROAD		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.161652' LONGITUDE: -80.555949'		DATE: 11-13-2017 DRAWN BY: G.FLORES SCALE: 1" = 2000' DRAWING NO: 087569048 TOPOGRAPHIC MAP	
REVISIONS:		DATE: 11-13-2017		COMPLETION ID 2501168665 PAD ID 3001156337	