

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: 4,450,486.933 EASTING: 533,454.421
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,450,903.062 EASTING: 533,796.356
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,453,098.029 EASTING: 532,938.967

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

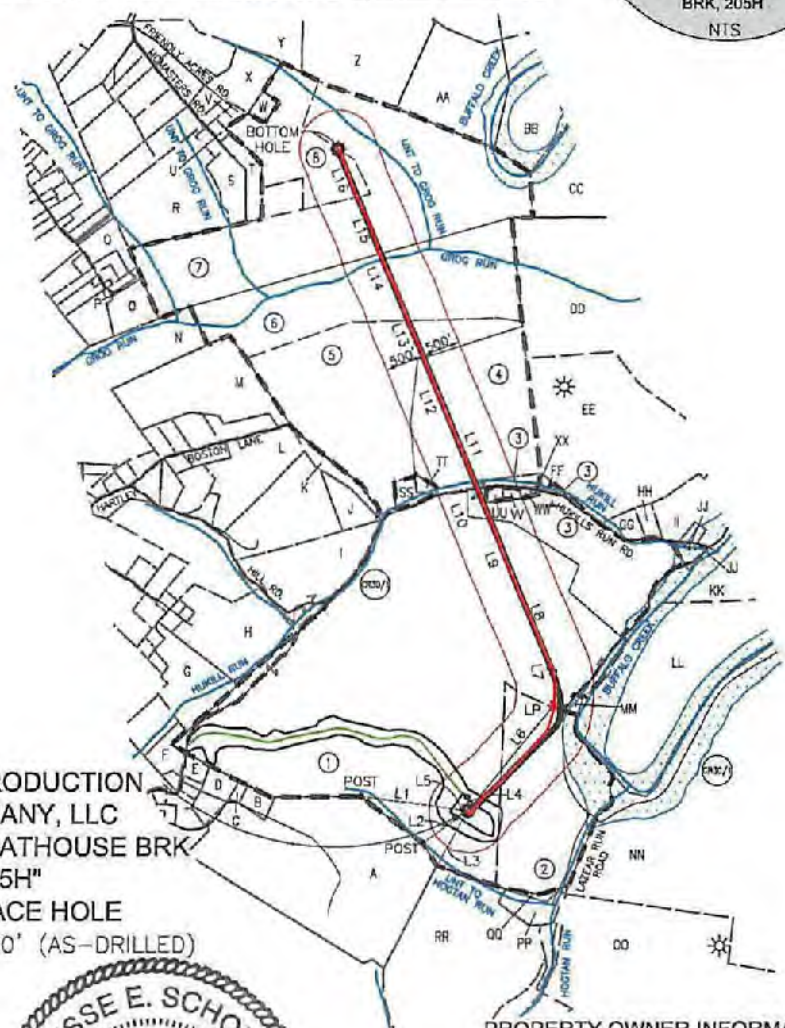
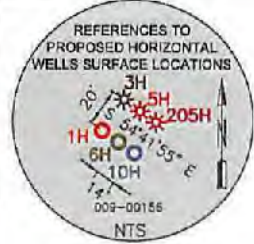
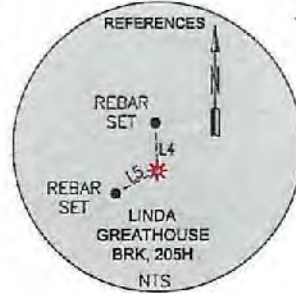
AS-DRILLED

SHL

Latitude: 40°12'30"

Longitude: 80°35'00"

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 82°31'55" W	1405.49'	SHL TO LANDMARK	FENCE POST
L2	S 53°55'12" W	718.06'	SHL TO LANDMARK	FENCE POST
L3	S 28°58'39" W	822.22'	SHL TO LANDMARK	FOUND STONE
L4	N 02°48'30" W	176.50'	SHL TO REF. PNT.	1/2" REBAR SET
L5	S 61°27'29" W	183.15'	SHL TO REF. PNT.	1/2" REBAR SET
L6	N 39°24'36" E	1767.03'	SHL TO LP	
L7	N 10°48'48" W	757.31'	AS-DRILLED BORE	
L8	N 23°07'13" W	926.68'	AS-DRILLED BORE	
L9	N 22°27'53" W	833.58'	AS-DRILLED BORE	
L10	N 22°14'24" W	556.88'	AS-DRILLED BORE	
L11	N 22°50'19" W	926.81'	AS-DRILLED BORE	
L12	N 22°09'44" W	649.71'	AS-DRILLED BORE	
L13	N 21°44'07" W	927.42'	AS-DRILLED BORE	
L14	N 23°59'28" W	740.49'	AS-DRILLED BORE	
L15	N 21°50'37" W	648.99'	AS-DRILLED BORE	
L16	N 21°38'20" W	778.02'	AS-DRILLED BORE	

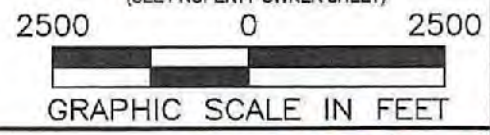


- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
 - SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND FIELD LOCATIONS.
 - THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
 - NO DWELLINGS AND BUILDINGS WITHIN 825 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.

SWN PRODUCTION COMPANY, LLC
"LINDA GREATHOUSE BRK 5H"
SURFACE HOLE
ELEV: 1139.00' (AS-DRILLED)



PROPERTY OWNER INFORMATION (SEE PROPERTY OWNER SHEET)



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

COMPANY: **SWN** Production Company, LLC

	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS	MINIMUM DEGREE OF ACCURACY: 1/200	LINDA GREATHOUSE BRK
	WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034	PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	OPERATOR'S WELL #: 205H API WELL #: 47 09 00156 STATE COUNTY PERMIT

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

WATERSHED: UPPER OHIO SOUTH ELEVATION: ±1139.00 (AS-DRILLED)

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: BETHANY, WV

SURFACE OWNER: LINDA REEVES GREATHOUSE ACREAGE: ±323.19

OIL & GAS ROYALTY OWNER: LINDA REEVES GREATHOUSE ACREAGE: ±760.60

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: 5,862' TVD 13,981' TMD

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

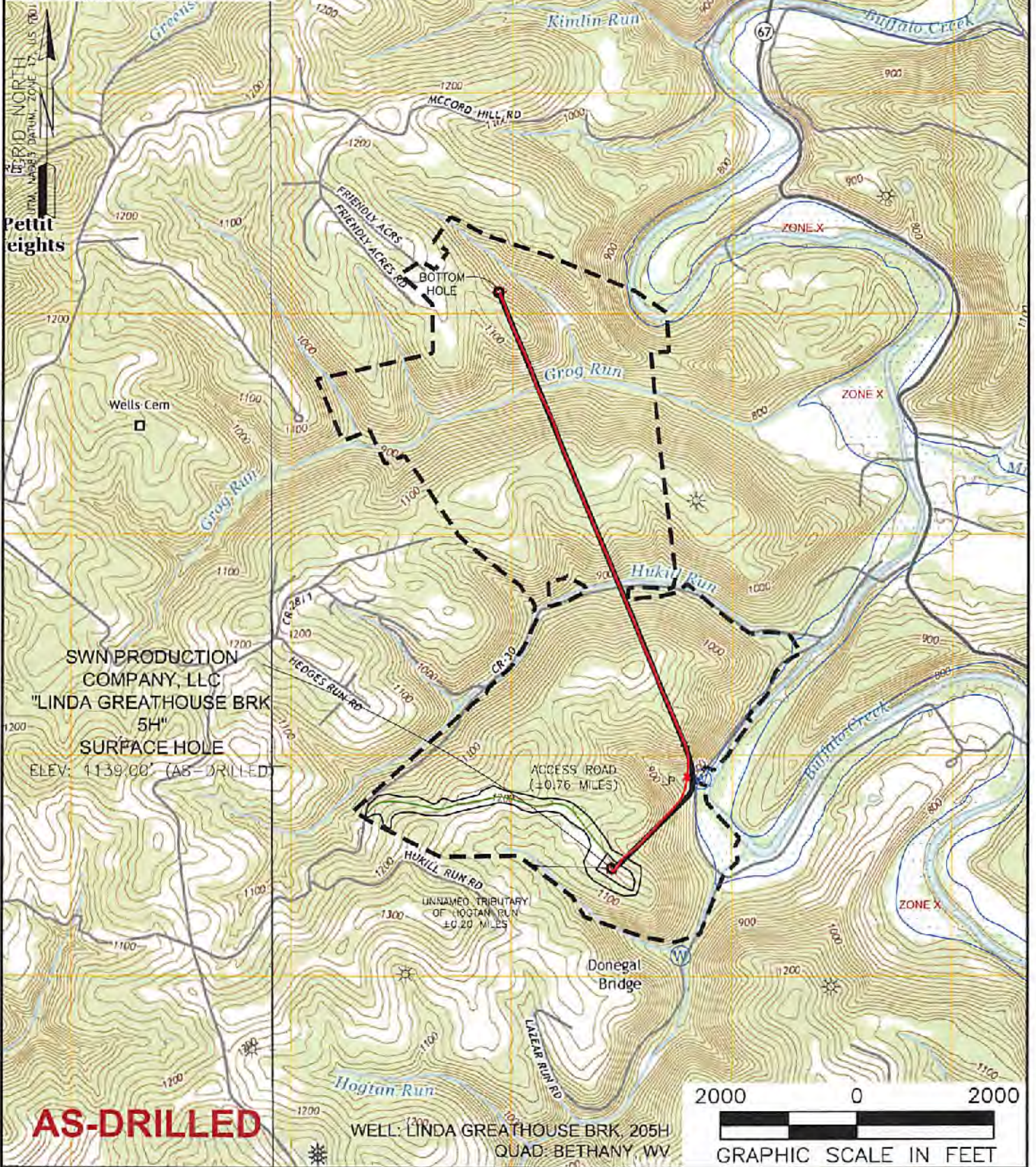
ADDRESS: P.O. BOX 1300 ADDRESS: P.O. BOX 1300

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

LEGEND:	--- TIE LINE	REVISIONS:	DATE: 12-16-2015
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	--- LEASE BOUNDARY		
○ EXISTING / PRODUCING WELLHEAD	--- 500' DHP BUFFER		
○ ABANDONED WELL	--- PROPOSED DHP		
○ PLUGGED & ABANDONED WELL	--- AS-DRILLED DHP		
△ CUT CONDUCTOR	--- ABANDONED PATH		
			DRAWN BY: B. HERMAN
			SCALE: 1" = 2500'
			DRAWING NO: 087569015
			WELL LOCATION PLAT

RETTEW

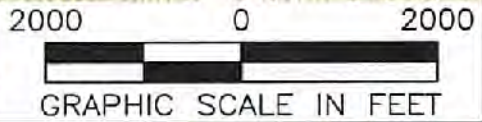
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









AS-DRILLED

SWN PRODUCTION COMPANY, LLC
"LINDA GREATHOUSE BRK 205H"
SURFACE HOLE
ELEV: 1139.00' (AS-DRILLED)

WELL: LINDA GREATHOUSE BRK, 205H
QUAD: BETHANY, WV



NAME AND DISTANCE TO THE NEAREST STREAM: HOGTAN RUN IS LOCATED ±0.30 MILES SOUTHEAST 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 LINDA GREATHOUSE BRK		WELL #: 205H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF BROOKE COUNTY, WEST VIRGINIA, MAP NUMBER 54009C01300; EFFECTIVE DATE: APRIL 19, 2010. FLOOD ZONE X IS SITUATED WITHIN THE LEASE BOUNDARY.		LOCATION: BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.204119° LONGITUDE: -80.606905° DATE: 09/15/2017	
LEGEND:  PROPOSED SURFACE HOLE / BOTTOM HOLE  EXISTING / PRODUCING WELL HEAD  ABANDONED WELL  PLUGGED & ABANDONED WELL  CUT CONDUCTOR  EXISTING SPRING  EXISTING WATER WELL  ACCESS ROAD  ACCESS ROAD TO PREV. SITE  HIGHWAY/INTERSTATE  COUNTY ROAD		REVISIONS:		DATE: 12-16-2015 DRAWN BY: B. HERMAN SCALE: 1" = 2000' DRAWING NO: 087569015 TOPOGRAPHIC MAP	