



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: 4,452,330.785
EASTING: 539,873.172

KICKOFF POINT LOCATION (KOP):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,452,330.785
EASTING: 539,873.172

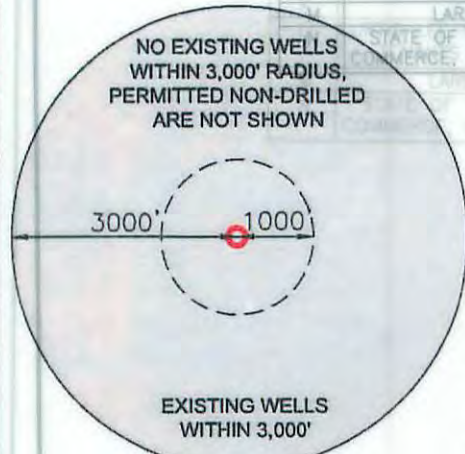
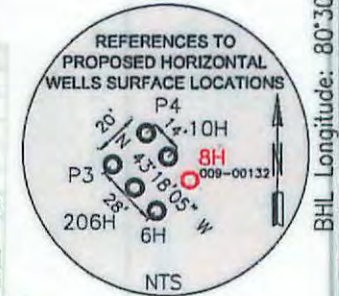
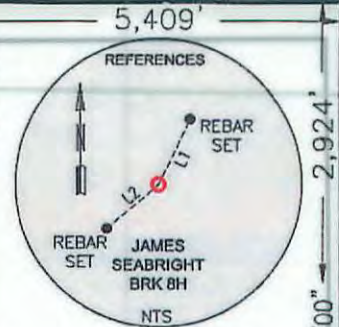
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,452,172.304
EASTING: 539,946.535

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,450,109.352
EASTING: 540,901.417

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

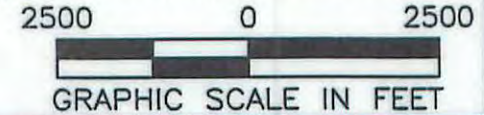
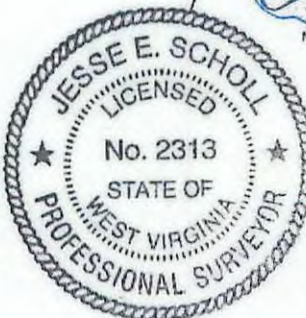
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 26°28'25" E	274.91'	SHL TO REF. PNT.	1/2" REBAR SET
L2	S 49°52'19" W	283.90'	SHL TO REF. PNT.	1/2" REBAR SET
L3	S 42°16'37" E	752.96'	SHL TO GIS CORNER	
L4	S 75°07'20" W	1496.74'	SHL TO GIS CORNER	
L5	S 24°50'24" E	572.96'	SHL TO LP	
L6	S 24°50'17" E	7458.09'	LP TO BHL	

TRACT	SURFACE OWNERS	TAX PARCEL	ACRES
1	JAMES K. SEABRIGHT AND MARTHA MAY SEABRIGHT, HUSBAND AND WIFE, LIFE INTEREST, JAMES H. SEABRIGHT, REMAINDER	03-B39-0008-0000	±173.00
2	JAMES K. AND MARTHA MAE SEABRIGHT, LE, JAMES H. SEABRIGHT AND CECELIA M. SEABRIGHT, REMAINDER	03-B39-0010-0000	±180.04
3	LINDA REEVES GREATHOUSE AND JAMES RUSSELL GREATHOUSE, HER HUSBAND	03-B39-0012-0000	±202.41
4	LINDA REEVES GREATHOUSE AND JAMES RUSSELL GREATHOUSE, HER HUSBAND	03-B44-0003-0000	±73.57
5	MILDRED MAIN	03-B44-0004-0000	±19.58
6	FORNEY AND SONS HOLDING CO., LLC	03-B44-0005-0000	±189.00
7	RAYMOND L. TREDWAY AND LINDSEY G. TREDWAY, JOINT TENANTS WITH RIGHT OF SURVIVORSHIP	03-B39-0011-0000	±170.38



- 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.



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

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)

JAMES SEABRIGHT BRK

OPERATOR'S WELL #: 8H

API WELL #: 47 9 0177 H6A

STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE **02/26/2016**

WATERSHED: SUGARCAMP RUN, BUFFALO CREEK ELEVATION: 1129.0 (DESIGN)

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

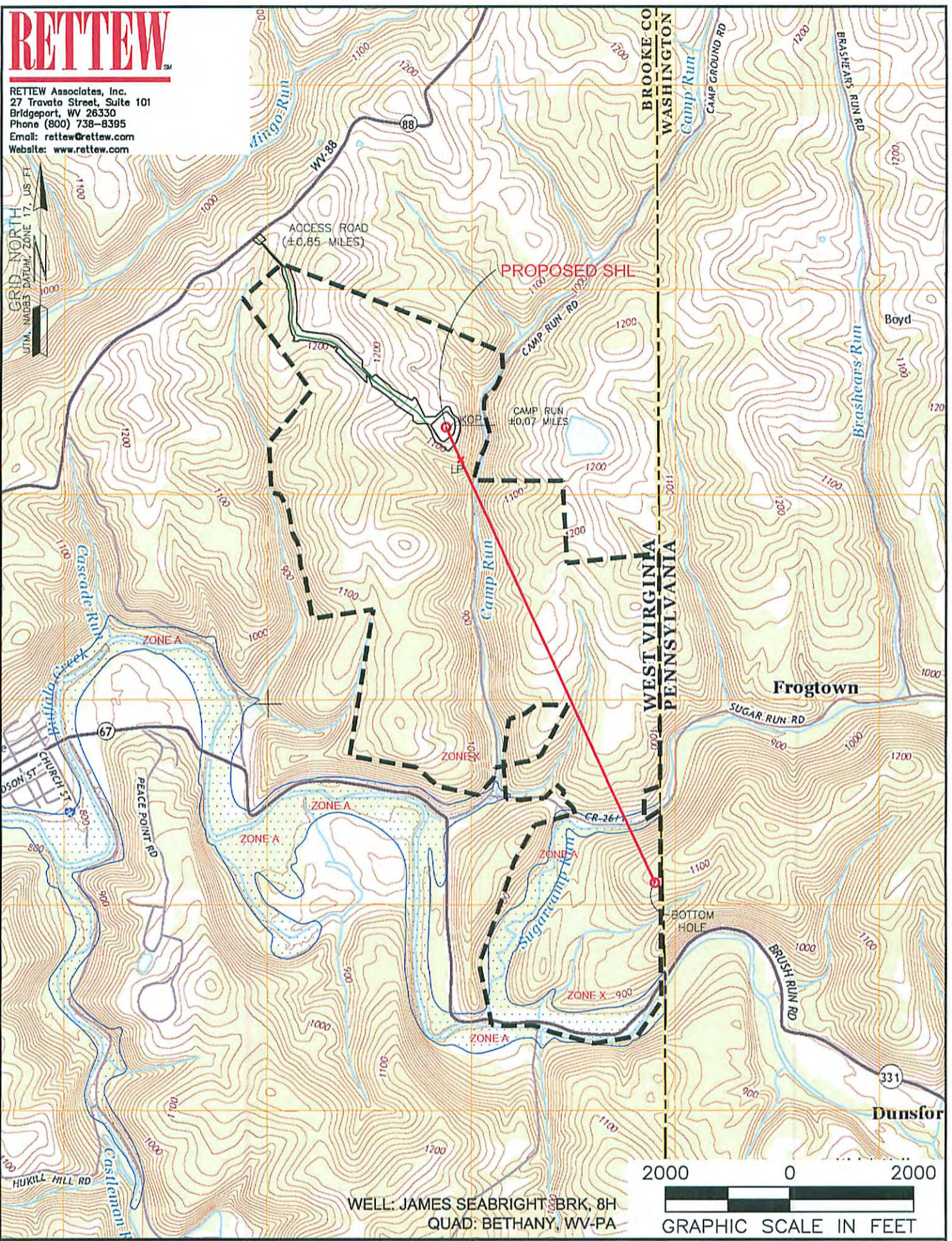
SURFACE OWNER: JAMES K. & MARTHA MAY SEABRIGHT; LIFE INTEREST & JAMES H. SEABRIGHT ACREAGE: ±173.00

OIL & GAS ROYALTY OWNER: MARTHA MAY SEABRIGHT, LE, & JAMES H. SEABRIGHT ACREAGE: ±173.00

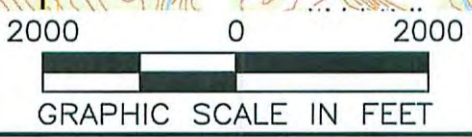
RETTEW

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



WELL: JAMES SEABRIGHT BRK, 8H
 QUAD: BETHANY, WV-PA



NAME AND DISTANCE TO THE NEAREST STREAM: CAMP RUN IS LOCATED ±0.07 MILES EAST OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): NO NEW CROSSINGS.		COMPANY: SWN Production Company, LLC		SWN ^{R2-V+} 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 LAGER THAN 2500 SQ FT: >625 FEET				OPERATOR'S JAMES SEABRIGHT BRK				WELL #: 8H	
FEMA FLOOD INFORMATION: BY GRAPHIC PLOTTING ONLY FEMA FIRM INCORPORATED AREA OF BROOKE COUNTY, WEST VIRGINIA; MAP NUMBER 54009C0135D; EFFECTIVE DATE: APRIL 19, 2010. FLOOD ZONES A & X ARE SITUATED WITHIN THE UNIT.				LOCATION: BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA				SURFACE HOLE LOCATION: 02/26/2016	
LEGEND: <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊘ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR --- LEASE BOUNDARY --- MARCELLUS DHP --- ACCESS ROAD --- ACCESS ROAD TO PREV. SITE --- HIGHWAY/INTERSTATE --- COUNTY ROAD 				BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.200387° LONGITUDE: -80.519428°				REVISIONS:	
				DATE: 12-08-2015				DRAWN BY: B. HERMAN	
								SCALE: 1" = 2000'	
								DRAWING NO: 087569036	
								TOPOGRAPHIC MAP	

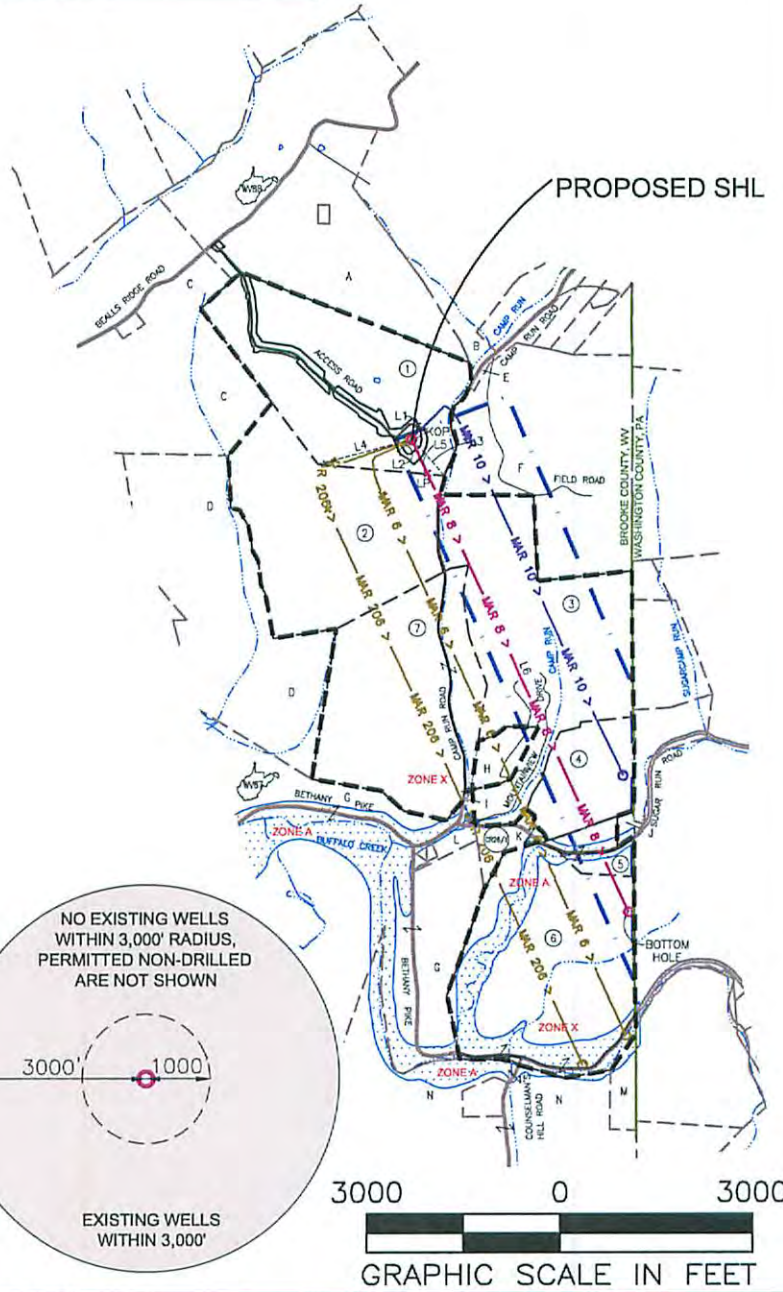
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L5	S 24°50'24" E	572.96'	SHL TO LP	
L6	S 24°50'17" E	7458.09'	LP TO BHL	

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	JAMES K. SEABRIGHT AND MARTHA MAY SEABRIGHT, HUSBAND AND WIFE, LIFE INTEREST, JAMES H. SEABRIGHT, REMAINDER (S) MARTHA MAY SEABRIGHT, LE, JAMES H. SEABRIGHT, REMAINDER (R)	03-839-0008-0000	±173.00
2	JAMES K. AND MARTHA MAE SEABRIGHT, LE, JAMES H. SEABRIGHT AND CECELIA M. SEABRIGHT, REMAINDER (S) COLONIAL CORPORATION, A NEVADA CORPORATION (R) JAMES K. SEABRIGHT AND MARTHA MAY SEABRIGHT, HUSBAND AND WIFE, LIFE INTEREST, JAMES H. SEABRIGHT AND CECELIA M. SEABRIGHT, REMAINDER (R) MARY E. ALLEN (R)	03-839-0010-0000	±160.04
3	LINDA REEVES GREATHOUSE AND JAMES RUSSELL GREATHOUSE, HER HUSBAND (S)/(R)	03-839-0012-0000	±202.41
4	LINDA REEVES GREATHOUSE AND JAMES RUSSELL GREATHOUSE, HER HUSBAND (S)/(R)	03-844-0003-0000	±73.57
5	MILDRED MAIN (S)/(R)	03-844-0004-0000	±19.58
6	FORNEY AND SONS HOLDING CO., LLC (S)/(R)	03-844-0005-0000	±180.00
7	RAYMOND L. TREDWAY AND LINDSEY G. TREDWAY, JOINT TENANTS WITH RIGHT OF SURVIVORSHIP (S) RAYMOND L. TREDWAY, WIDOWER (R)	03-839-0011-0000	±170.38

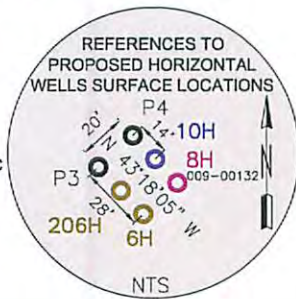
SURFACE HOLE LOCATION (SHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.220450° LONGITUDE: -80.531371°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,607,355.250 EASTING: 1,771,233.900
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,452,330.785 EASTING: 539,873.172
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UTM (NAD83, ZONE 17, FEET): NORTHING: 14,607,355.250 EASTING: 1,771,233.900
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,452,330.785 EASTING: 539,873.172
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GEOGRAPHIC (NAD83): LATITUDE: 40.219019° LONGITUDE: -80.530519°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,606,835.300 EASTING: 1,771,474.590
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,452,172.304 EASTING: 539,946.535
BOTTOM HOLE LOCATION (BHL):
GEOGRAPHIC (NAD83): LATITUDE: 40.200387° LONGITUDE: -80.519428°
UTM (NAD83, ZONE 17, FEET): NORTHING: 14,600,067.100 EASTING: 1,774,607.400
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,450,109.352 EASTING: 540,901.417

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

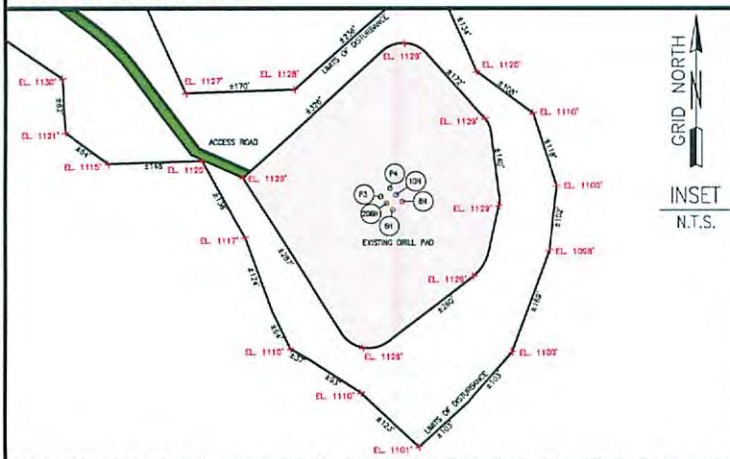


NOTES ON SURVEY

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SWN PRODUCTION COMPANY, LLC
SURFACE HOLES
P3. "JAMES SEABRIGHT BRK-P3H"
P4. "JAMES SEABRIGHT BRK-P4H"
6. "JAMES SEABRIGHT BRK-6H"
8. "JAMES SEABRIGHT BRK-8H"
10. "JAMES SEABRIGHT BRK-10H"
206. "JAMES SEABRIGHT BRK-206H"



COMPANY:	SWN RECEIVED Production Company, LLC Office of Oil and Gas Production Company™
OPERATOR'S	JAMES SEABRIGHT BRK
WELL #:	FEB 14 2016
LOCATION:	BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA
SURFACE HOLE LOCATION:	02/26/2016
GEOGRAPHIC (NAD83): LATITUDE: 40.220450° LONGITUDE: -80.531371°	
BOTTOM HOLE LOCATION:	
GEOGRAPHIC (NAD83): LATITUDE: 40.200387° LONGITUDE: -80.519428°	
REVISIONS:	DATE: 12-08-2015
	DRAWN BY: B. HERMAN
	SCALE: 1" = 3000'
	DRAWING NO: 087569036
	INTERNAL WELL PLAT