

# THRASHER

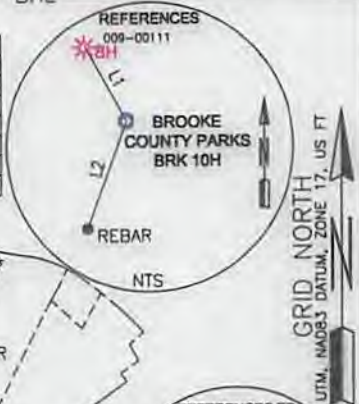
THE THRASHER GROUP, INC.  
600 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE 304-624-4108

Latitude: 40°17'30"

10,026' BHL

13,269' SHL

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 28°52'16" W	59.41'	SHL TO REF. PNT.	BRK BH #09-00111
L2	S 20°08'38" W	280.96'	SHL TO REF. PNT.	REBAR SET
L3	N 28°30'27" E	4764.13'	SHL TO LANDMARK	CONC. MONUMENT
L4	N 31°23'01" E	3949.45'	SHL TO LANDMARK	REBAR FOUND
L5	S 74°01'15" E	981.68'	CURVE LENGTH	SHL TO PC
L6	S 18°48'30" E	7617.52'		LP TO BHL



- NOTES ON SURVEY**
- COORDINATES SYSTEM IS UTM, NAD 83 DATUM, ZONE 17, U.S. FOOT AND WELL COORDINATES ESTABLISHED USING SURVEY GRADE GPS.
  - PROPERTY 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.

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	(S)BROOKE COUNTY PARK COMMISSION (R)RICHARD P. GIST (R)VIRGINIA GIST ABLITT (R)ANN GIST LEVIN	05-03-828-0064-0000	135.02
2	(S)COUNTY COURT OF BROOKE COUNTY (R)RICHARD P. GIST (R)VIRGINIA GIST ABLITT (R)ANN GIST LEVIN	05-03-828-0065-0000	135.50
3	(S)THE COUNTY COURT OF BROOKE COUNTY (R)BROOKE COUNTY PARK & RECREATION COMMISSION	05-03-828-0061-0000	51.55
4	(S)BROOKE COUNTY PARK AND RECREATION COMMISSION (R)JAMES ROBERT HERVEY & KAREN L. HERVEY (R)WILLIAM JUDSON HERVEY R. & TERESA J. HERVEY (R)FRED L. HERVEY & GARY JO HERVEY (R)MARY KATHERIN HERVEY DEGARNO AND ALAN H. DEGARNO (R)ROSELL D. HERVEY & LISA K. HERVEY	05-03-833-0017-0000	101.61
5	(S)BROOKE COUNTY PARK & RECREATION COMMISSION	05-03-833-0117-0000	4.17
6	(S)KATHA R. SMITH & KATHY J. SMITH (R)SPR, INC.	05-03-833-0114-0000	12.82
7	(S)KATHA R. SMITH & KATHY J. SMITH (R)LAURA G. RYAN & JAMES C. RYAN, JR. (R)KAREN G. YOUNGINS & TERRY D. YOUNGINS (R)DAVID RYAN	05-03-834-0018-0003	2.78
8	(R)LAURA G. RYAN & JAMES C. RYAN, JR. (R)KAREN G. YOUNGINS & TERRY D. YOUNGINS	05-03-834-0018-0000	4.47
9	(S)ROUCHI C. WALES SR. & BARBARA A. WALES	05-03-834-0017-0000	110.40

**SURFACE HOLE LOCATION (SHL):**  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,456,758.139  
EASTING: 538,454.658

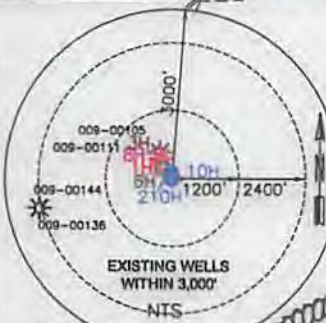
**LANDING POINT LOCATION (LPL):**  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,456,682.076  
EASTING: 538,715.942

**BOTTOM HOLE LOCATION (BHL):**  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,454,468.553  
EASTING: 539,464.694

**SURFACE HOLE LOCATION (SHL):**  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,456,758.133  
EASTING: 538,454.654

**LANDING POINT LOCATION (LPL):**  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,456,656.503  
EASTING: 538,723.912

**BOTTOM HOLE LOCATION (BHL):**  
UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,454,485.470  
EASTING: 539,464.501



2000 0 2000

GRAPHIC SCALE IN FEET

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. 2270 *M.S.W. 5/12/17*

SWN Production Company, LLC

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL &amp; GAS 601 57TH STREET CHARLESTON, WV 25034</p>	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	BROOKE COUNTY PARKS OPERATOR'S WELL #: BRK 10H API WELL #: 47 009 00168 STATE COUNTY PERMIT
	WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/>	WATERSHED: BUFFALO CREEK DISTRICT: BUFFALO COUNTY: BROOKE SURFACE OWNER: BROOKE COUNTY PARKS COMMISSION OIL & GAS ROYALTY OWNER: RICHARD P. GIST, VIRGINIA GIST ABLITT, ANN GIST LEVIN.

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: 2,976' TVD 14,040' TMD

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

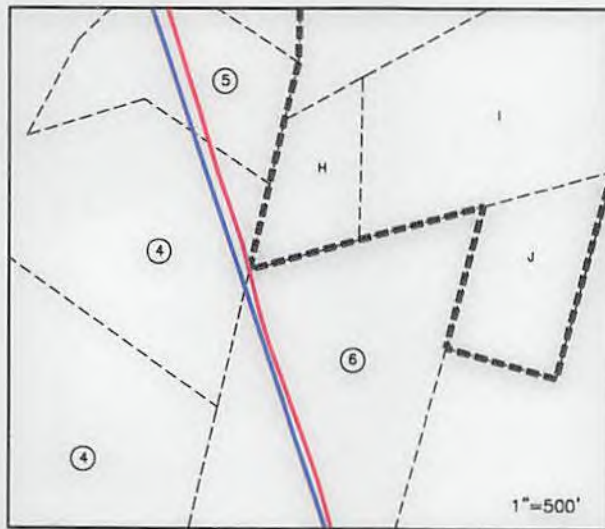
LEGEND:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE		05-11-2017
⊙ EXISTING / PRODUCING WELLHEAD		SHEET 1 OF 3
⊗ ABANDONED WELL	----- LEASE BOUNDARY	DRAWN BY: K. POTH
⊕ PLUGGED & ABANDONED WELL	----- PROPOSED PATH	SCALE: 1" = 2000'
△ CUT CONDUCTOR	----- AS-DRILLED PATH	DRAWING NO: 050-5525
	----- ABANDONED PATH	WELL LOCATION PLAT



# THRASHER

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TRACT	ADJOINER	PARCEL
A	COUNTY COURT OF BROOKE COUNTY	05-03-B34-0049-0000
B	JOHN PAUL POTTER, PENNY POTTER SUAVE, JAY M POTTER II	05-03-B33-0108-0000
C	JOHN G. RADVANSKY & BARBARA J RADVANSKY	05-03-B33-0109-0000
D	GEORGE GIPALO & RHONDA GIPALO	05-03-B33-0110-0000
E	GEORGE GIPALO & RHONDA GIPALO	05-03-B33-0114-0001
F	COUNTY COURT OF BROOKE COUNTY	05-03-B33-0113-0000
G	KEITH SMITH & KATHY SMITH	05-03-B33-0026-0000
H	KEITH SMITH & KATHY SMITH	05-03-B33-0025-0000
I	KEITH SMITH & KATHY SMITH	05-03-B28-0045-0000
J	KEITH R SMITH & KATHY J SMITH	05-03-B28-0063-0000
K	DAVID L. RAGAN	05-03-B28-0062-0000
L	DAVID L. RAGAN	05-03-B28-0059-0000
M	WILLOW SPRINGS INC	05-03-B28-0058-0000
N	WILLIAM CURTIS HUNT & SUSAN L HUNT	05-03-B28-0057-0001
O	DELORES JEANNE BUYAN, SARAH LYNN LYCANS STENGER, JUDITH LEE BRINKLEY	05-03-B28-0066-0000
P	NANCY J AMBROSE	05-03-B29E-0001-0000
Q	NANCY J AMBROSE	05-03-B29J-0007-0000
R	DAVID RAGAN	05-03-B29J-0024-0000
S	CARMAN FANASE	05-03-B29J-0025-0000
T	JAMES L & LAURA INMAN	05-03-B29-0014-0000
U	BRIAN E & JENNIFER B PLANTS	05-03-B34-0001-0000
V	MARK OWEN WEAVER & VIRGINIA BEALL KREUTZ	05-03-B34-0016-0001
W	DENZIL & MARY LOU CONLEY	05-03-B34-0016-0002
X	MARLENE K. HUKILL	05-03-B34-0016-0005
Y	JOHN C WALES & BARBARA A WALES	05-03-B34-0001-0001
Z	BRIAN SMITH	05-03-B34-0016-0004
AA	PHOENIX-GREENLAWN PARTNERS	05-03-B34-0010-0002
BB	STARVAGGI INDUSTRIES INC.	05-03-B34-0007-0000
CC	STARVAGGI INDUSTRIES INC.	05-03-B34-0010-0000
DD	RUSSELL D HERVEY	05-03-B34-0011-0000
EE	STARVAGGI INDUSTRIES INC.	05-03-B34-0014-0000
FF	STARVAGGI INDUSTRIES INC.	05-03-B34-0015-0000
GG	BERNARD J KNORR III & NICOLE C KNORR	05-03-B34-0018-0000
HH	RUBY FAYE KNORR & BERNARD JOHN KNORR JR	05-03-B34-0019-0000
II	BERNARD J KNORR JR & RUBY F KNORR	05-03-B34-0048-0000



01/05/2018

COMPANY:  
**SWN** **SWN** *R.A. V+*  
Production Company, LLC Production Company™

REVISIONS:	DATE:
	05-11-2017
	SHEET 2 OF 3
	DRAWN BY: K. POTH
	SCALE: 1" = 2000'
	DRAWING NO: 050-5525
	WELL LOCATION PLAT