

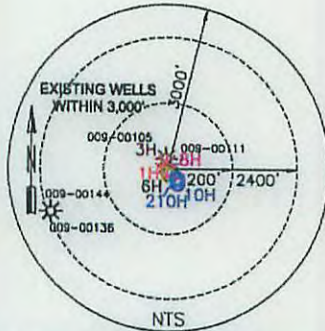
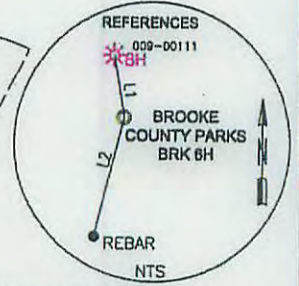
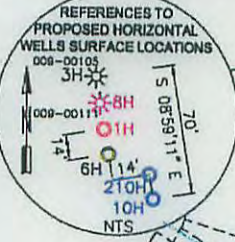
THRASHER

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

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.

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 09°21'06" W	28.12'	SHL TO REF. PNT.	BRK BH #09-00111
L2	S 14°09'12" W	297.07'	SHL TO REF. PNT.	REBAR SET
L3	N 04°11'40" E	2008.00'	SHL TO REF. PNT.	REBAR SET
L4	N 31°52'03" E	3941.45'	SHL TO REF. PNT.	REBAR FOUND
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L5	S 37°38'23" W	858.98'		SHL TO LP
L6	S 21°26'38" E	7991.78'		LP TO BHL



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	05-03-828-0084-0000	135.00
2	(S)KISTANAGOS INDUSTRIES	05-03-828-0063-0000	16.25
3	(S)BROOKE COUNTY PARK AND RECREATION COMMISSION (R)JAMES ROBERT HERVEY & KAREN L. HERVEY (R)WILLIAM JOSEPH HERVEY II & TERESA J. HERVEY (R)FRED L. HERVEY & CARY JO HERVEY (R)MARY KATHERINE HERVEY DECARNO & ALAN H. DECARNO (R)RUSSELL D. HERVEY & LISA K. HERVEY	05-03-828-0080-0000	101.81
4	(S)PHOENIX-SHELLMAN PARTNERS LIMITED PARTNERSHIP (R)JOEY USA INC (R)JAMES ROBERT HERVEY & KAREN L. HERVEY (R)WILLIAM JOSEPH HERVEY II & TERESA J. HERVEY (R)FRED L. HERVEY & CARY JO HERVEY (R)MARY KATHERINE HERVEY DECARNO & ALAN H. DECARNO (R)RUSSELL D. HERVEY & LISA K. HERVEY	05-03-833-0113-0000	101.55
5	(S)JOHN C. WALKS SR. & BARBARA A. WALKS	05-03-814-0017-0000	170.40

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,765.533 EASTING: 538,447.303
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,558.209 EASTING: 538,287.413
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,454,290.933 EASTING: 539,177.956



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 *[Signature]* 11/02/15



(+) 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)

COMPANY: **SWN** Production Company, LLC

BROOKE COUNTY PARKS BRK
OPERATOR'S WELL #: 6H
API WELL #: 47 009 00167 H6A
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
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)
TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,947' TMD-14-3351-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: ● PROPOSED SURFACE HOLE / BOTTOM HOLE ⊙ EXISTING / PRODUCING WELLHEAD ⊗ ABANDONED WELL ⊗ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	REVISIONS:	DATE: 11-02-2015 SHEET 1 OF 2 DRAWN BY: E. LYTLE SCALE: 1" = 2000' DRAWING NO: 050-5525 WELL LOCATION PLAT
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47-009-00167

THRASHER

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600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-624-4108

4700900167

TRACT	ADJOINER	TAX PARCEL
A	MARK OWEN WEAVER & VIRGINIA BEALL KREUTZ	05-03-B34-0049-0000
B	DENZIL & MARY LOU CONLEY	05-03-B33-0108-0000
C	MARLENE K. HUKILL	05-03-B33-0109-0000
D	JOHN C WALES SR & BARBARA A WALES	05-03-B33-0110-0000
E	JAMES H. STEWART & PAMELA JO STEWART	05-03-B33-0031-0000
F	STARVAGGI INDUSTRIES INC.	05-03-B33-0026-0000
G	STARVAGGI INDUSTRIES INC.	05-03-B33-0025-0000
H	STARVAGGI INDUSTRIES INC.	05-03-B28-0062-0000
I	RUSSELL D. HERVEY	05-03-B28-0045-0000
J	BERNARD J. KNORR III & NICHOLE C. KNORR	05-03-B28-0059-0000
K	RUBY FAYE KNORR & BERNARD JOHN KNORR JR	05-03-B28-0058-0000
L	BERNARD J. KNORR JR & RUBY F KNORR	05-03-B28-0057-0001
M	COUNTY COURT OF BROOKE COUNTY	05-03-B28-0066-0000
N	COUNTY COURT OF BROOKE COUNTY	05-03-B28-0065-0000
O	COUNTY COURT OF BROOKE COUNTY	05-03-B28-0061-0000
P	KEITH SMITH & KATHY SMITH	05-03-B34-0001-0000
Q	BROOKE COUNTY PARK & RECREATION COMMISSION	05-03-B33-0117-0000
R	KEITH SMITH & KATHY SMITH	05-03-B34-0016-0001
S	KEITH R. SMITH & KATHY J. SMITH	05-03-B33-0114-0000
T	BRIAN SMITH	05-03-B33-0114-0001
U	DAVID L. RAGAN	05-03-B34-0016-0003
V	DAVID RAGAN	05-03-B34-0016-0000
W	DAVID RAGAN	05-03-B34-0015-0000
X	NANCY J AMBROSE	05-03-B34-0014-0000
Y	CARMAN FANASE	05-03-B34-0018-0000
Z	JAMES L. & LAURA INMAN	05-03-B34-0019-0000
AA	BRIAN E. & JENNIFER B. PLANTS	05-03-B34-0048-0000

RECEIVED
Office of Oil and Gas
NOV 03 2015
WV Department of
Environmental Protection

COMPANY: **SWN** **SWN** ^R/_A ^V/_A
Production Company, LLC Production Company™

12/11/2015

REVISIONS:	DATE: 10-27-2015
	SHEET 2 OF 2
	DRAWN BY: E. LYTLE
	SCALE: 1" = 2000'
	DRAWING NO: 050-5525
	WELL LOCATION PLAT