

THRASHER

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

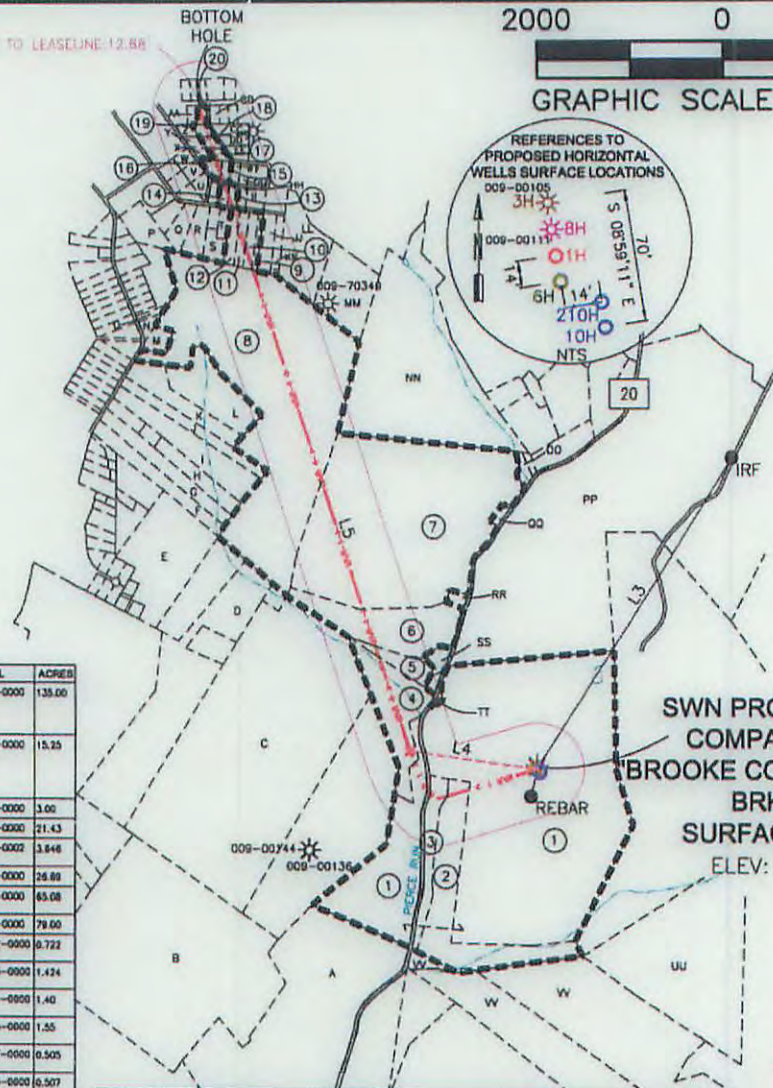
NOTES ON SURVEY

- 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 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.

BH TO LEASELINE 12.88'

2000 0 2000

GRAPHIC SCALE IN FEET



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

11,556'
Longitude: 80°32'30"

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	(S)BROOKE CO. PARKS COMMISSION (R)RICHARD P. GIST (R)VIRGINIA GIST ABBLIT (R)ANN GIST LEVIN	05-03-828-0064-0000	135.00
2	(S)RISTARWAGGI INDUSTRIES (N)CLARENCE PAUL & EDNA LANNUM (R)TIMOTHY P. & DENISE PASNETTI (R)TERRY P. & SHARON M. PASNETTI (R)THOMAS P. & NINA PASNETTI	05-03-828-0063-0000	15.25
3	(S)RISTARWAGGI INDUSTRIES	05-03-828-0062-0000	3.00
4	(S)BERNARD J. II & NICOLE C. KNORR	05-03-828-0059-0000	21.43
5	(S)BERNARD J. II & NICOLE C. KNORR (R)BERNARD L. KNORR, JR. & RUBY T. KNORR	05-03-828-0057-0002	3.846
6	(S)WIDONALD JR & JACQUE EATON	05-03-828-0057-0000	26.89
7	(S)CHARLES EDWARD & ELISE ELLEN SCHAFFBACH (R)CHARLES EDWARD SCHAFFBACH & ELISE HELEN SCHAFFBACH	05-03-828-0055-0000	63.08
8	(S)WILLIAM ROBERT & KAREN L. HERVEY	05-03-828-0046-0000	79.00
9	(S)LARRY J. HOOD & VALERIE S. HOOD (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0022-0000	0.722
10	(S)LARRY J. HOOD (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0023-0000	1.424
11	(S)MARY ELLEN NELSON (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0024-0000	1.40
12	(S)DARRELL C. & DENISE A. NELSON (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0025-0000	1.55
13	(S)WOOD CARNEY STENGER (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0017-0000	0.505
14	(S)EDWARD PATTERSON (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0018-0000	0.507
15	(S)KARENETH LEMASTERS, JR. (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0006-0000	0.487
16	(S)SHARLEY A. HELDRITH (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0005-0000	0.979
17	(S)DELORES ELLIOTT (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0043-0000	0.654
18	(S)DORNEY R. HUGGINS (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0042-0000	0.771
19	(S)BERNARD H. ELLIOTT, JR. (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0041-0000	0.7075
20	(S)OLUS TEMPLE (R)SANDRA ELIZABETH CHAPMAN MALOY	05-03-823R-0040-0000	1.048

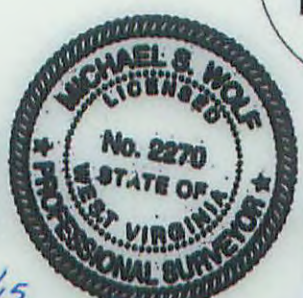
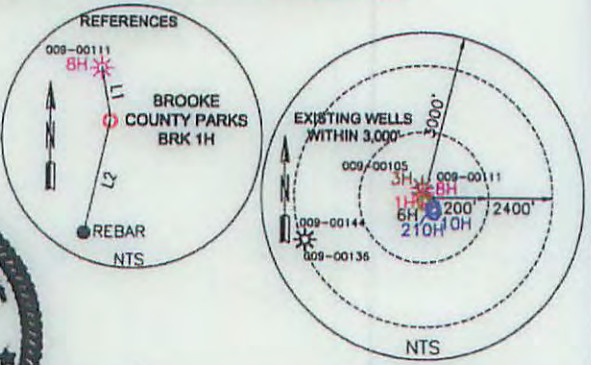
SWN PRODUCTION COMPANY, LLC
BROOKE COUNTY PARKS BRK 1H" SURFACE HOLE
ELEV: 1,206'

LINE	DESCRIPTION	DISTANCE	DESCRIPTION	MONUMENT
L1	N 09°15'20" W	14.11'	SHL TO REF. PNT.	BRK 8H #09-00111
L2	S 13°06'59" W	309.96'	SHL TO REF. PNT.	REBAR SET
L3	N 32°00'06" E	3930.89'	SHL TO REF. PNT.	REBAR FOUND
			CURVE LENGTH	DESCRIPTION
L4	N 82°00'28" W	1379.47'		SHL TO LP
L5	N 18°12'34" W	7250.14'		LP TO BHL

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,456,769.745
EASTING: 538,446.602

LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,456,828.206
EASTING: 538,030.223

BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,458,927.386
EASTING: 537,339.664



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]* 10/28/15

COMPANY: **SWN** Production Company, LLC

(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS

MINIMUM DEGREE OF ACCURACY: 1/200

PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)

COMPANY: **SWN** Production Company, LLC

OPERATOR'S WELL #: 1H

API WELL #: 47 009 00166 HGA

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 CO. PARKS COMMISSION

OIL & GAS ROYALTY OWNER: RICHARD P. GIST, VIRGINIA GIST ABBLIT, 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: 5,942' 12/13/2015

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC

ADDRESS: P.O. BOX 1300

CITY: JANE LEW STATE: WV ZIP CODE: 26378

DESIGNATED AGENT: DFE 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
- LEASE BOUNDARY
- 500' DHP BUFFER
- MAR 1 > - MARCELLUS DHP
- ABANDONED PATH

REVISION:

DATE: 10-28-2015

SHEET 1 OF 2

DRAWN BY: E. LYLE

SCALE: 1" = 2000'

DRAWING NO: 050-5525

WELL LOCATION PLAT

THRASHER

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

TRACT	ADJOINER	PARCEL
A	STARVAGGI INDUSTRIES	05-03-B33-0025-0000
B	MICHAEL WHITOC & PATRICIA GRAHAM	05-03-B28-0043-0000
C	WILLIAM HERVEY III	05-03-B28-0045-0002
D	FREDERICK L. & CATHY JO HERVEY	05-03-B28-0045-0001
E	KENNETH & JANE C. DIGHT	05-03-B28F-0036-0000
F	MARY K. MILLER	05-03-B28B-0039-0000
G	MARY K. MILLER	05-03-B28B-0040-0000
H	NEAL SMITH	05-03-B28B-0041-0000
I	NEAL SMITH	05-03-B28B-0043-0000
J	NEAL SMITH	05-03-B28B-0044-0000
K	JOHN BARLOW	05-03-B28B-0045-0001
L	JOHN W. BARLOW	05-03-B28-0068-0000
M	GARY LISH & BONNIE LISH	05-03-B28B-0047-0000
N	KERRY M. & JANICE F. JACKSON	05-03-B28B-0048-0000
O	TERRY CLYDE PATTERSON	05-03-B28B-0049-0000
P	MILDRED CRAFT	05-03-B23P-0050-0000
Q	TIM & LISA HALSTEAD	05-03-B23R-0029-0000
R	ADAM FLETCHER & LISA FLETCHER	05-03-B23R-0028-0000
S	DAVID NELSON	05-03-B23R-0075-0000
T	RUTH L. BROWN	05-03-B23R-0026-0000
U	EDWARD G. PATTERSON	05-03-B23R-0033-0000
V	ANGELO IARUSSI	05-03-B23R-0034-0000
W	GERALD & MEGAN NICOLE MCCLAIN	05-03-B23R-0035-0000
X	ROBERT CLAY MCADOO	05-03-B23R-0004-0000
Y	JASPER PROVENZANO	05-03-B23R-0003-0000
Z	ROSS A. TENNANT	05-03-B23R-0002-0000
AA	BOBBIE JEAN MERCER	05-03-B23R-0039-0000
BB	RALPH MORGAN	05-03-B23R-0050-0000
CC	LOUIS & JUDITH TEMPLE	05-03-B23R-0049-0000
DD	BERNARD ELLIOT JR.	05-03-B23R-0048-0000
EE	RODNEY R. HUGGINS	05-03-B23R-0044-0000
FF	STEPHEN & KELLI MEADE	05-03-B23R-0007-0000
GG	JOHN & SHARON EDWARDS	05-03-B23R-0008-0000
HH	CATHY JO HERVEY	05-03-B23R-0016-0000
II	FRED P. & LORETTA A. MCDONALD	05-03-B23R-0015-0000
JJ	DORSEN & PATTY MCCONNAUGHY	05-03-B23R-0021-0000
KK	DEBORAH K. LEOFANTI	05-03-B23R-0020-0000
LL	FREDERICK & CATHY JO HERVEY	05-03-B28-0048-0000
MM	JAMES & KAREN HERVEY	05-03-B28-0049-0000
NN	CARMELLA BUCY	05-03-B28-0050-0000
OO	CORINNA A. COEN	05-03-B28-0053-0000
PP	BROOKE COUNTY COURT	05-03-B28-0066-0000
QQ	ERIC HANCHER & CHARLOTTE GLASURE	05-03-B28-0054-0000
RR	DONALD EATON JR.	05-03-B28-0056-0000
SS	BERNARD F. KNORR JR.	05-03-B28-0057-0000
TT	BERNARD J. III & NICHOLE C. KNORR	05-03-B28-0059-0000
UU	BROOKE COUNTY COURT	05-03-B28-0067-0000
VV	BROOKE COUNTY PARK COMMISSION	05-03-B28-0060-0000

RECEIVED
Division of Oil and Gas
NOV 02 2015
WV Department of
Environmental Protection

4700900166

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

REVISIONS:	DATE: 10-28-2015
	SHEET 2 OF 2
	DRAWN BY: E. LYTLE
	SCALE: 1" = 2000'
	DRAWING NO: 050-5525
	WELL LOCATION PLAT