

# THRASHER

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

### WELL RESTRICTIONS

1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 995 FEET OF PROPOSED WELL.
4. PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 98 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

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

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	JOHN E. TERRY D. HARWATT & SHIRLEY MAE NEIL	B47-0032	143.57
2	TERRY D. HARWATT	B47-0031	1.56
3	TERRY D. HARWATT	B47-0032-4	2.98
4	CAROL G. DWYER	B42-0030	59.33
5	NOEL R. & JOYCE L. SCHWERTFEGER	B42-0040	56.33
6	DOUGLAS L. & BELINDA TURNER	B42-0035	8.00
7	GREGORY K. & PATRICIA M. TURNER	B42-0036	3.00
8	LEON W. & OLIVE L. TURNER	B42-0037	10.46

### SURFACE HOLE LOCATION (SHL):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,447,855.05  
EASTING: 534,680.66

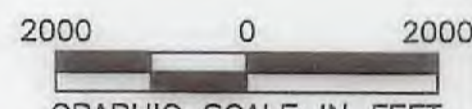
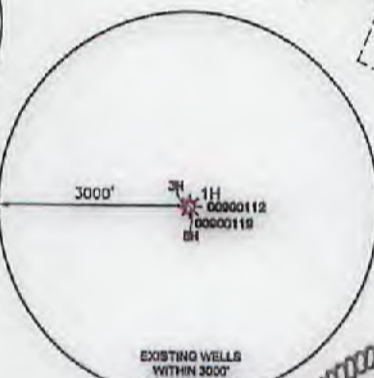
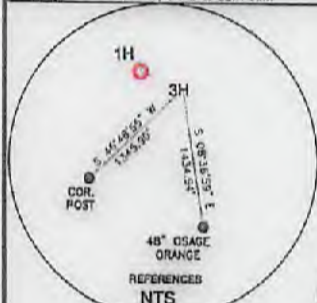
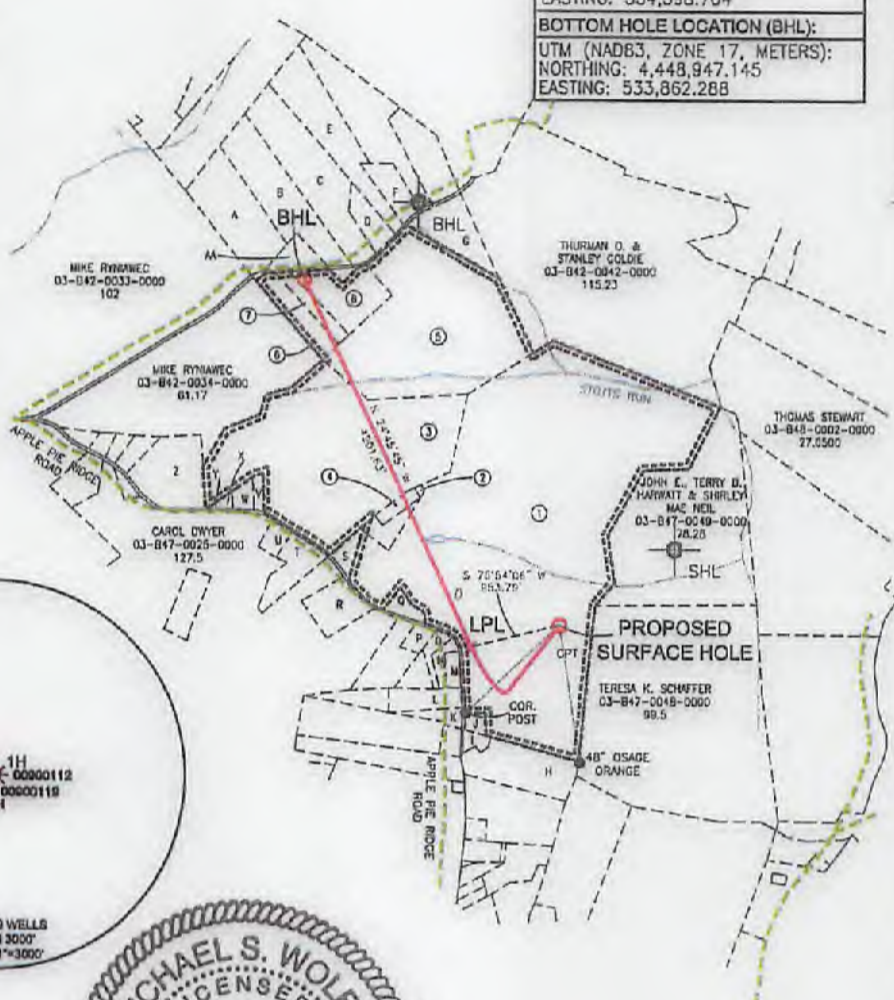
### LANDING POINT (LPL):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,447,784.239  
EASTING: 534,398.704

### BOTTOM HOLE LOCATION (BHL):

UTM (NAD83, ZONE 17, METERS):  
NORTHING: 4,448,947.145  
EASTING: 533,862.288

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	RALPH O. & CINA L. SMITH	B42-0054	12.60
B	RALPH O. & CINA L. SMITH	B42-0055	14.00
C	RALPH O. & CINA L. SMITH	B42-0056	15.00
D	RALPH O. & CINA L. SMITH	B42-0057	3.30
E	RALPH O. & CINA L. SMITH	B42-0058	16.50
F	RALPH O. & CINA L. SMITH	B42-0059	3.90
G	RICHARD KIMBALL	B42-0041	6.71
H	BOHNE J. ONE DEN S. CARR, RICKI L. SINDA, JOSHUA A. CARR	W1-0002	10.67
I	BILL L. SAVAGE, LI, OHIO COUNTY COMMISSION, JEDARIERIAN	W1-0001	1.44
J	JOHN E. & EDITH R. HARWATT	B47-0032-3	1.00
K	RONALD G. & DONNA M. KELLER	B47-0041	1.81
L	ROBERT W. & EDITH A. MILVET	B47-0040	3.77
M	SUSAN FRANCIS ROEBER ET AL	B47-0036	1.53
N	ERNEST JR. & SUSAN ROEBER	B47-0037	1.57
O	BRIAN G. & CHEROIA L. FEIST	B47-0038	1.57
P	SANDRA K. ROEBER ET AL	B47-0035	1.57
Q	TERRY D. HARWATT	B47-0032-2	1.55
R	TERRY D. HARWATT	B47-0032-1	1.28
S	JOHN WILSON ET AL	B47-0025-3	2.00
T	BETH ANN HOOD	B47-0025-2	4.77
U	RONALD J. & BETH A. HOOD	B47-0027	1.50
V	CAROL G. DWYER	B47-0023	0.85
W	WAYNE A. ANDERSON JR.	B47-0028	1.07
X	SCOTT J. WELHEIM	B47-0028-1	0.44
Y	WAYNE A. ANDERSON JR.	P/O B47-0028	1.07
Z	CATOL DWYER	B47-0025	17.50
AA	MICHAEL, DAVID & BETH FIRK	B42-0042	2.53



### NOTES ON SURVEY

1. SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

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. 5/25/17*

(+) 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 ELEVATION: GRADE GPS (NAVD 88, US FT)

COMPANY: **SWN** Production Company, LLC  
OPERATOR'S WELL #: JOHN HARWATT BRK 1H  
API WELL #: 47 009 00211  
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW  
WATERSHED: UPPER OHIO-SOUTH DISTRICT: BUFFALO COUNTY: BROOKE  
SURFACE OWNER: JOHN E, TERRY D HARWATT & SHIRLEY MAE NEIL  
OIL & GAS ROYALTY OWNER: JOHN E, TERRY D HARWATT & SHIRLEY MAE NEIL  
ELEVATION: 1135.4' QUADRANGLE: BETHANY, WV  
ACREAGE: ±143.57 ACREAGE: ±143.57  
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: 6,013 TVD 10,683 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

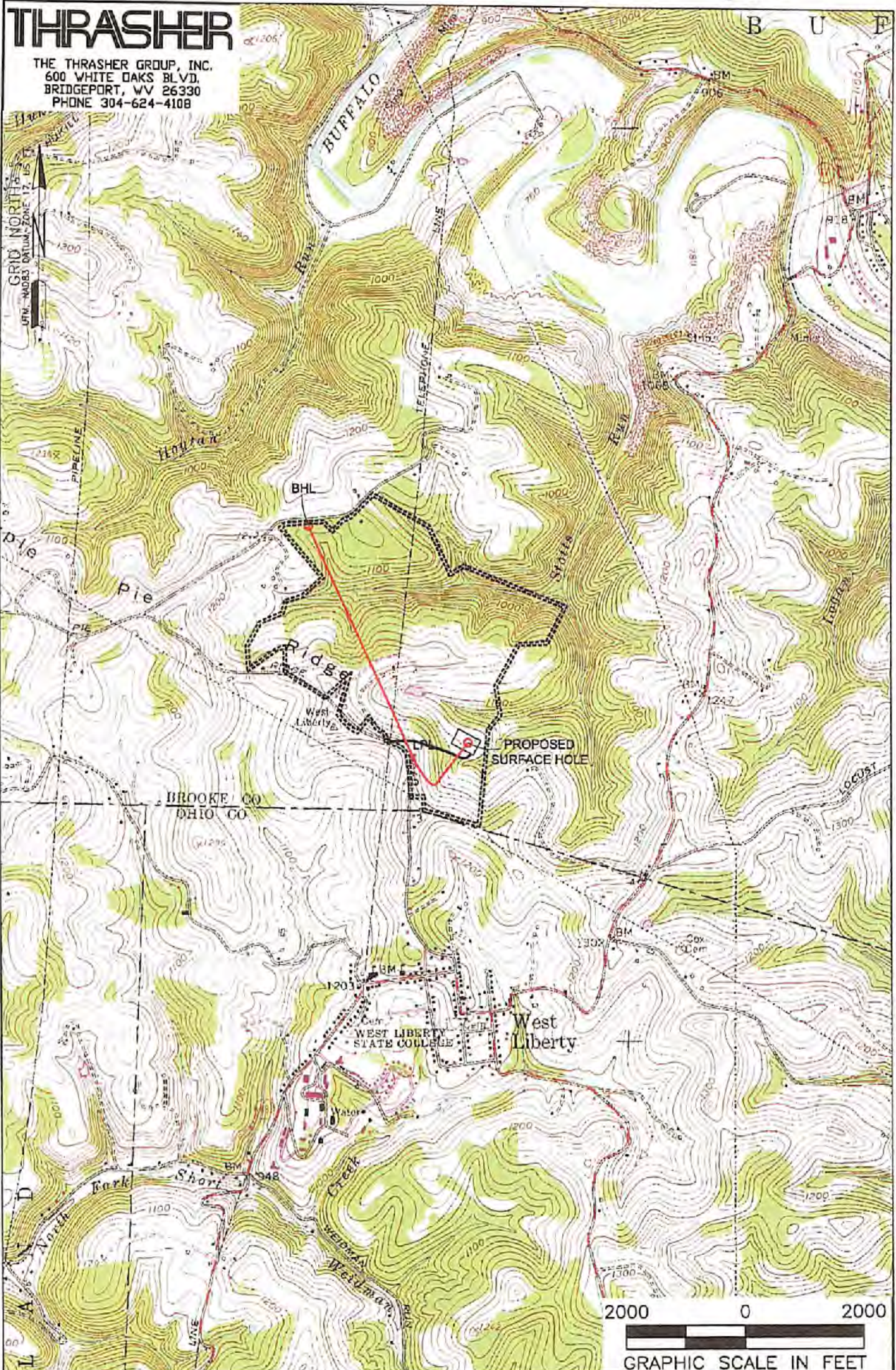
LEGEND:	REVISIONS:	DATE:
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY	05-25-2017
⊙ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT	
LPL LANDING POINT LOCATION	===== LEASE BOUNDARY	
⊕ EXISTING WATER WELL	— PROPOSED PATH	
⊙ EXISTING SPRING		
		DRAWN BY: R.DOERR
		SCALE: 1" = 2000'
		DRAWING NO: 050-6213
		WELL LOCATION PLAT



9-00211

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### LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- EXISTING / PRODUCING WELLHEAD
- LPL\* LANDING POINT LOCATION
- FLOOD PLAIN
- ACCESS ROAD
- PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- LEASE BOUNDARY
- PROPOSED PATH

11/24/2014

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: JOHN HARWATT	WELL # BRK 1H	SERIAL # XXXX
ADDRESS: P.O. BOX 1300 JANE LEW, WV 26378	COUNTY - CODE BROOKE - 103	DISTRICT; BUFFALO	
SURFACE OWNER: JOHN E. TERRY D HARWATT & SHIRLEY MAE NEIL	USGS 7 1/2 QUADRANGLE MAP NAME BETHANY, WV		