

Latitude: (STUEBENVILLE EAST) 40°17'30" 4,189' SHL

Latitude: (BETHANY) 40°15'00" 3,910' BHL

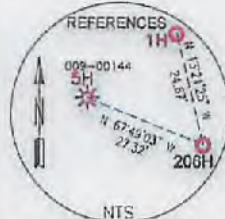
# THRASHER

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.

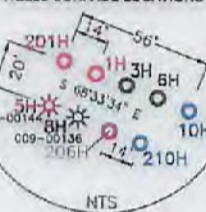
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	RUSSELL D. HERVEY	03-0828-0045-0000
TRACT	SURFACE OWNER	TAX PARCEL
2	WILLIAM JUSOSON HERVEY III	03-0828-0045-0002
3	MICHAEL WHITCO ET AL	03-0828-0043-0000
4	STARVAGGI INDUSTRIES INC.	03-0933-0025-0000
5	WELLS-GIST LAND CO., LLC.	03-0833-0029-0020
6	WEST VIRGINIA DEPT. OF TRANSPORTATION, DIVISION OF HIGHWAYS	PIERCE RUN ROAD
7	SHARON A. KEARNS, fka SHARON A. CUNNINGHAM	03-0833-0032-0000
8	JAMES H. STEWART & PAMELA JO STEWART	03-0833-0031-0000



TRACT	ADJOINER	PARCEL
A	JAMES R. AND KAREN L. HERVEY	03-03-028-0045-0003
B	CHARLES D. AND SHARLEY L. FABRES	03-03-028-0045-0004
C	MICHAEL WHITCO ET AL	03-03-028-0029-0000
D	SCORNB AND JIMMIE TATON	03-03-028-0027-0000
E	STEWART J. HENRY, JR AND MICOLE E. HENRY	03-03-028-0027-0002
F	STEWART J. HENRY, JR AND MICOLE E. HENRY	03-03-028-0029-0000
G	BROOKE COUNTY PARK COMMISSION	03-03-029-0004-0000
H	BROOKE COUNTY PARK COMMISSION	03-03-029-0004-0000
I	STARVAGGI INDUSTRIES, INC.	03-03-033-0025-0000
J	STELLA HERVEY	03-03-033-0027-0000
K	THEODORE J. AND MELISSA A. TROTT	03-03-033-0028-0000
L	PRODIGE-CRENSHAW PARTNERS, LP	03-03-033-0013-0000
M	CHARLES L. AND LAURA J. MCGOWAN	03-03-033-0107-0001
N	CHARLES L. AND LAURA J. MCGOWAN	03-03-033-0107-0002
O	CHARLES L. AND LAURA J. MCGOWAN	03-03-033-0107-0003
P	CHARLES L. AND LAURA J. MCGOWAN	03-03-033-0107-0004
Q	DAVE KOSEWICZ ET AL	03-03-033-0107-0009
R	JAMES D. BURKE	03-03-033-0107-0005
S	JAMES D. BURKE	03-03-033-0107-0006
T	JOHN T. AND SALLY JEAN MILLER	03-03-033-0112-0000
U	FRANK T. DONLEY JR AND YVONNE EMMERSON	03-03-033-0116-0000
V	MARGARET ELLEN CORBIN	03-03-033-0125-0000
W	CHARLES R. SCHNEPP JR AND MARGARET E. SCHNEPP	03-03-033-0184-0000
X	CHARLES R. SCHNEPP JR	03-03-033-0185-0000
Y	CHARLES R. SCHNEPP JR AND MARGARET E. SCHNEPP	03-03-033-0182-0000
Z	MELVIN AND DORIS COLBERTSON	03-03-033-0096-0000
AA	PRODIGE-CRENSHAW PARTNERS, LP	03-03-033-0013-0000
AB	PRODIGE-CRENSHAW PARTNERS, LP	03-03-033-0014-0000
AC	DONALD M. AND JIMMIE T. TATON	03-03-033-0013-0000
AD	SHARON A. CUNNINGHAM	03-03-033-0031-0001
AE	SHARON CUNNINGHAM	03-03-033-0033-0000
AF	PRODIGE-CRENSHAW PARTNERS, LP	03-03-033-0016-0000
AG	PRODIGE-CRENSHAW PARTNERS, LP	03-03-033-0013-0000
AH	PRODIGE-CRENSHAW PARTNERS, LP	03-03-033-0014-0000
AI	DOAN M. SULLIVAN	03-03-029-0022-0000
AJ	MICHAEL WHITCO ET AL	03-03-028-0029-0000
AK	RANDY AND PATRICIA GRIMM	03-03-028-0029-0001
AL	RANDY M. AND PATRICIA J. GRIMM	03-03-028-0042-0000
AM	FREDERICK L. AND CATIE JO HERVEY	03-03-028-0045-0001

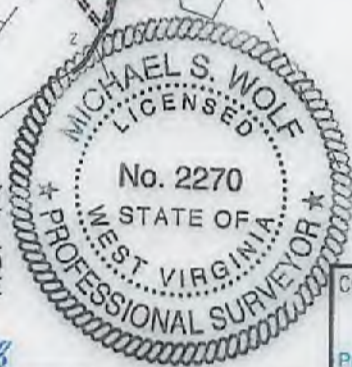
GRID NORTH  
UTM, NAD83 DATUM, ZONE 17, US FT

### REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,498.485 EASTING: 537,703.119
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,243.169 EASTING: 537,193.433
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,454,574.114 EASTING: 537,801.269

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]* 4/10/18

(+) 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

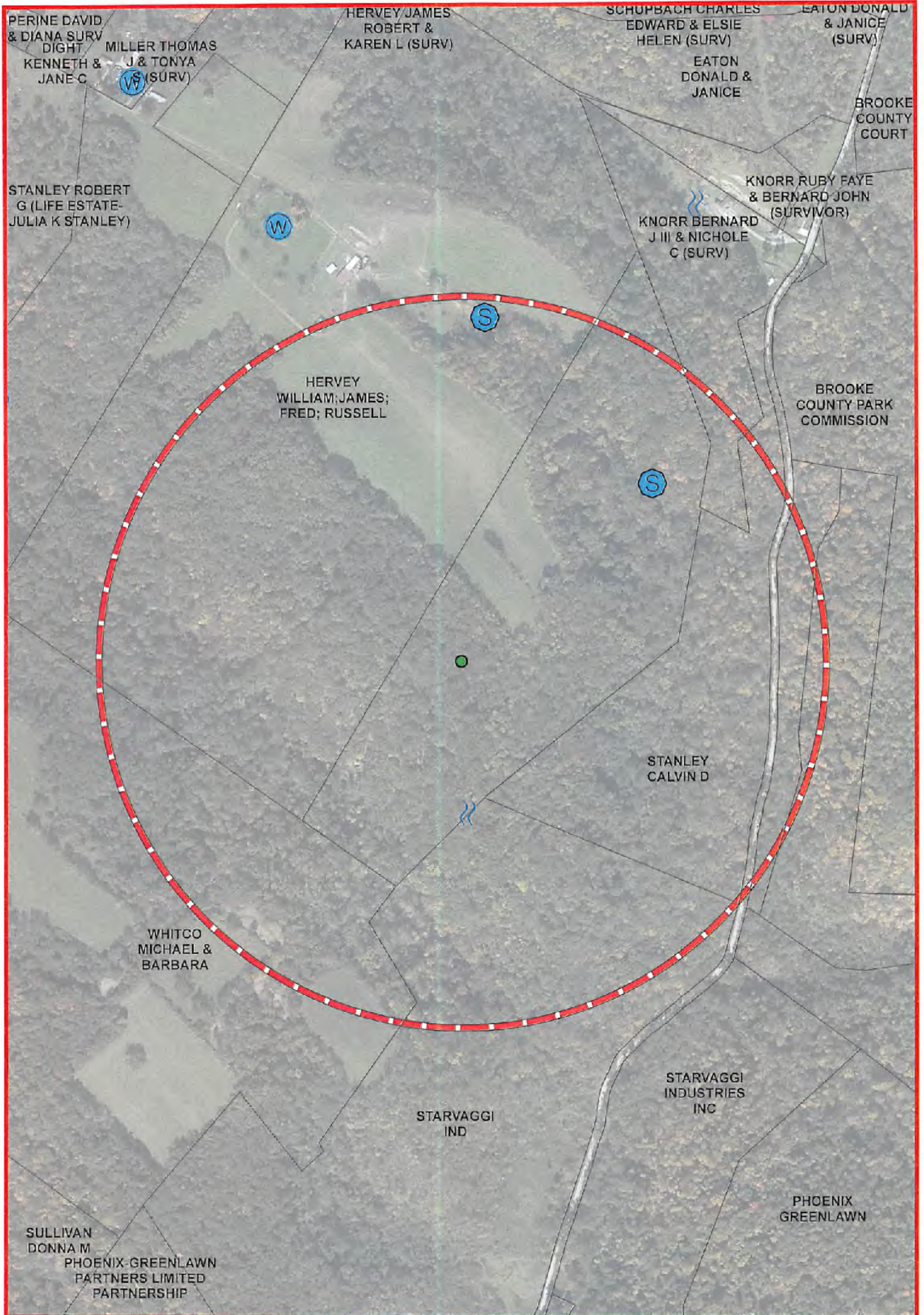
BHL RUSSELL HERVEY BRK  
OPERATOR'S WELL #: 206H  
API WELL #: 47 009 00256  
STATE COUNTY PERMIT

WELL TYPE: OIL  WASTE DISPOSAL  PRODUCTION  DEEP  GAS  LIQUID INJECTION  STORAGE  SHALLOW   
WATERSHED: BUFFALO CREEK ELEVATION: 1166.5'  
DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: STUEBENVILLE EAST & BETHANY  
SURFACE OWNER: RUSSELL D. HERVEY ACREAGE: ± 37.84  
OIL & GAS ROYALTY OWNER: RUSSELL D. HERVEY & LISA K. HERVEY ACREAGE: ± 37.84  
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: 5,970' TVD 12,392' 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:  
○ PROPOSED SURFACE HOLE / BOTTOM HOLE  
\* EXISTING / PRODUCING WELLHEAD  
LPL LANDING POINT LOCATION  
⊙ EXISTING WATER WELL  
⊙ EXISTING SPRING  
— SURVEYED BOUNDARY  
— DRILLING UNIT  
= = = = LEASE BOUNDARY  
— PROPOSED PATH

REVISIONS:  
DATE: 04-10-2018  
DRAWN BY: R. DOERR  
SCALE: 1" = 2000'  
DRAWING NO: 050-5495  
WELL LOCATION PLAT



The intent of this map is for general reference only. Information on this map was created using the best available data at the time but is not guaranteed accurate.

08/17/2018

<b>Water Purveyor Map</b>			<b>Well Pad:</b> Russell Hervey BRK Pad	<b>County:</b> BROOKE
Map by: speart	Date: 6/5/2017		Russell Hervey BRK Coordinates: 40.258056, -80.556929	
NAD 1983 BLM Zone 17N ftUS				