

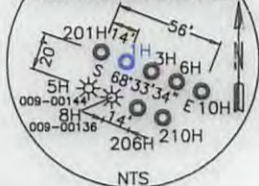
THRASHER

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.

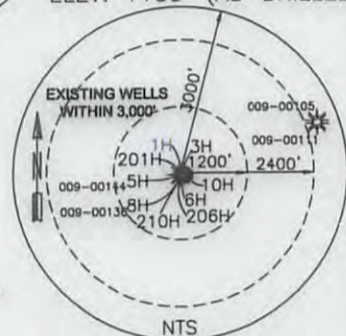
REFERENCES TO PROPOSED HORIZONTAL WELLS SURFACE LOCATIONS



REFERENCES RUSSELL HERVEY BRK 1H



SWN PRODUCTION COMPANY, LLC
RUSSELL HERVEY BRK 1H
SURFACE HOLE
ELEV: 1166' (AS-DRILLED)

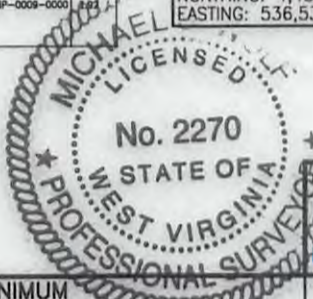


TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	(S)RUSSELL D. HERVEY	05-03-028-0045-0000	37.84
2	(R)RUSSELL D. HERVEY & LISA K. HERVEY	05-03-028-0045-0002	112.51
3	(S)WILLIAM JUDSON HERVEY, II & THERESA J. HERVEY	05-03-028-0045-0001	37.84
4	(S)FREDERICK L. HERVEY & CATHY JO HERVEY	05-03-028-0044-0000	74.88
5	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0031-0000	0.60
6	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0029-0000	0.74
7	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0028-0000	1.05
8	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0027-0000	1.12
9	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0026-0000	0.36
10	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0025-0000	0.78
11	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0024-0000	1.87
12	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0023-0000	0.56
13	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0022-0000	0.63
14	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0021-0000	0.63
15	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0020-0000	0.30
16	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0019-0000	0.69
17	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0018-0000	0.83
18	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0017-0000	1.08
19	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0016-0000	0.70
20	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0015-0000	1.46
21	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0014-0000	1.98
22	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0013-0000	1.98
23	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0012-0000	1.78
24	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0011-0000	23.06
25	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0010-0000	2.73
26	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0009-0000	2.13
27	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0008-0000	4.30
28	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0007-0000	2.25
29	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0006-0000	1.87
30	(S)ROBERT G. STANLEY & ELLEN STANLEY	05-03-028-0005-0000	1.87

SURFACE HOLE LOCATION (SHL):	SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,505.809 EASTING: 537,701.383	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,505.809 EASTING: 537,701.383
LANDING POINT LOCATION (LPL):	LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,633.924 EASTING: 537,727.842	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,513.274 EASTING: 537,526.906
BOTTOM HOLE LOCATION (BHL):	BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,458,542.274 EASTING: 536,530.997	UTM (NAD83, ZONE 17, METERS): NORTHING: 4,458,538.631 EASTING: 536,524.103

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



2000 0 2000

GRAPHIC SCALE IN FEET

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

COMPANY: **SWN** Production Company, LLC
SWN Production Company™
RUSSELL HERVEY BRK
OPERATOR'S WELL #: 1H
API WELL #: 47 STATE COUNTY PERMIT 009 00178

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW
WATERSHED: BUFFALO CREEK
DISTRICT: BUFFALO COUNTY: BROOKE
SURFACE OWNER: RUSSELL D. HERVEY
OIL & GAS ROYALTY OWNER: RUSSELL D. HERVEY & LISA K. HERVEY
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: 5,818' TVD 13,124' 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
X ABANDONED WELL
X PLUGGED & ABANDONED WELL
△ CUT CONDUCTOR
--- LEASE BOUNDARY
--- AS-DRILLED PATH
--- PROPOSED PATH
--- ABANDONED PATH
REVISIONS:
DATE: 06-27-2017
DRAWN BY: R. DOERR
SCALE: 1" = 2000'
DRAWING NO: 050-5495
WELL LOCATION PLAT