

Top Hole Latitude: 40°17'30" 4,273'
8,097'

Bottom Hole Latitude: 40°17'30" SEE SHEET 2 OF 2

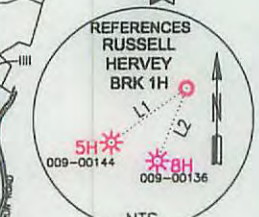
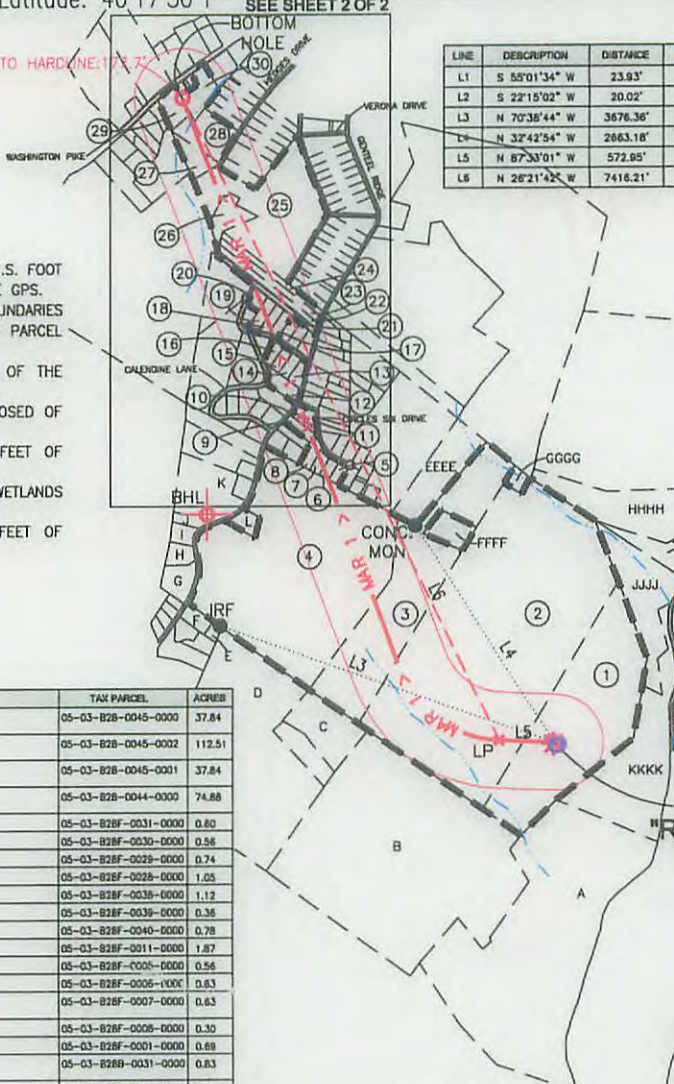
THRASHER

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

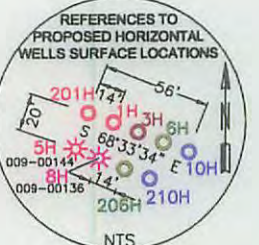
NOTES ON SURVEY

- 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.

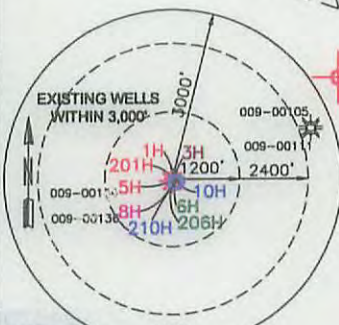
LINE	DESCRIPTION	DISTANCE	DESCRIPTION	MONUMENT
L1	S 55°01'34" W	23.93'	SHL TO REF. PNT.	SH 009-00144
L2	S 22°15'02" W	20.02'	SHL TO REF. PNT.	BH 009-00136
L3	N 70°38'44" W	3676.36'	SHL TO LANDMARK	IRF FOUND
L4	N 32°42'54" W	2663.18'	SHL TO LANDMARK	CONCRETE MONUMENT
L5	N 87°33'01" W	572.85'	SHL TO LP	LANDING POINT
L6	N 26°21'42" W	7416.21'	LP TO BHL	BOTTOM HOLE



SWN PRODUCTION COMPANY, LLC
"RUSSELL HERVEY BRK 1H"
SURFACE HOLE
ELEV: 1166'



TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
1	(S/RUSSELL D. HERVEY	05-03-828-0045-0000	37.84
2	(S/RUSSELL D. HERVEY & LISA K. HERVEY	05-03-828-0045-0002	112.51
3	(S/WILLIAM JUDSON HERVEY, III & THERESA J. HERVEY	05-03-828-0045-0001	37.84
4	(S/FREDERICK L. HERVEY	05-03-828-0044-0000	74.88
5	(S/ROBERT G. STANLEY	05-03-828-0031-0000	0.80
6	(S/ROBERT G. STANLEY & ELLEN STANLEY	05-03-828F-0030-0000	0.56
7	(S/R)GEORGE W. BUXTON & ROSEANNE BUXTON	05-03-828F-0029-0000	0.74
8	(S/R)JAMES LANDWEHR, SR	05-03-828F-0028-0000	1.05
9	(S/R)BRAN E. JOHNSON & MARANDA S. JOHNSON	05-03-828F-0028-0000	1.12
10	(S/R)TIMOTHY J. STANLEY	05-03-828F-0039-0000	0.36
11	(S/R)LENA H. MCCALMONT	05-03-828F-0040-0000	0.78
12	(S/R)JEFFERY R. GROOMS & DENISE M. GROOMS	05-03-828F-0011-0000	1.87
13	(S/R)HEATHER L. MENNING	05-03-828F-0005-0000	0.56
14	(S/R)JOHN C. SCHWARTZ & PATRICIA A. SCHWARTZ	05-03-828F-0005-0000	0.56
15	(S/R)CAMERON L. PUSKARICH & KAROL A. PUSKARICH	05-03-828F-0005-0000	0.83
16	(S/R)KAROL A. PUSKARICH F/A/KAROL A. BOETICHER	05-03-828F-0007-0000	0.63
17	(S/R)CAMERON L. PUSKARICH & KAROL A. PUSKARICH	05-03-828F-0008-0000	0.30
18	(S/R)JOHN W. MOSSGROVE & MELDOY D. MOSSGROVE	05-03-828F-0001-0000	0.89
19	(S/R)JOHN W. MOSSGROVE & MELDOY D. MOSSGROVE	05-03-828B-0031-0000	0.83
20	(S/R)JEFFREY W. DORRANCE, JR.	05-03-828B-0032-0000	1.08
21	(S/R)ROBERT C. SULT, JR. & M. DEANNE SULT	05-03-828B-0033-0000	0.70
22	(S/R)JEFFREY W. DORRANCE, JR.	05-03-828B-0030-0000	1.46
23	(S/R)ROBERT C. SULT, JR. & M. DEANNE SULT	05-03-828B-0029-0000	1.86
24	(S/R)MICHAEL E. COX & DOROTHY M. COX	05-03-828B-0028-0000	1.98
25	(S/R)MICHAEL E. COX & DOROTHY M. COX	05-03-828B-0027-0000	1.78
26	(S/R)MICHAEL E. COX & DOROTHY M. COX	05-03-828B-0014-0000	23.06
27	(S/R)COREY P. ROMAN, AKA. COREY PAUL ROMAN & DONNA M. ROMAN, AKA. DONNA MARLE ROMAN	05-03-828B-0015-0000	2.73
28	(S/R)RICHARD A. CHAMP & CINDY A. CHAMP	05-03-828B-0002-0000	2.13
29	(S/R)JOANNE R. DUNKEL & DONALD K. DUNKEL	05-03-823P-0027-0000	4.30
30	(S/R)JOANNE R. DUNKEL & DONALD K. DUNKEL	05-03-823P-0005-0000	2.23
31	(S/R)JOANNE R. DUNKEL & DONALD K. DUNKEL	05-03-823P-0009-0000	1.92



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,505.809 EASTING: 537,701.383
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,513.274 EASTING: 537,526.906
BOTTOM HOLE LOCATION (BHL): 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 *[Signature]* 3/30/16

COMPANY: **SWN** Production Company, LLC

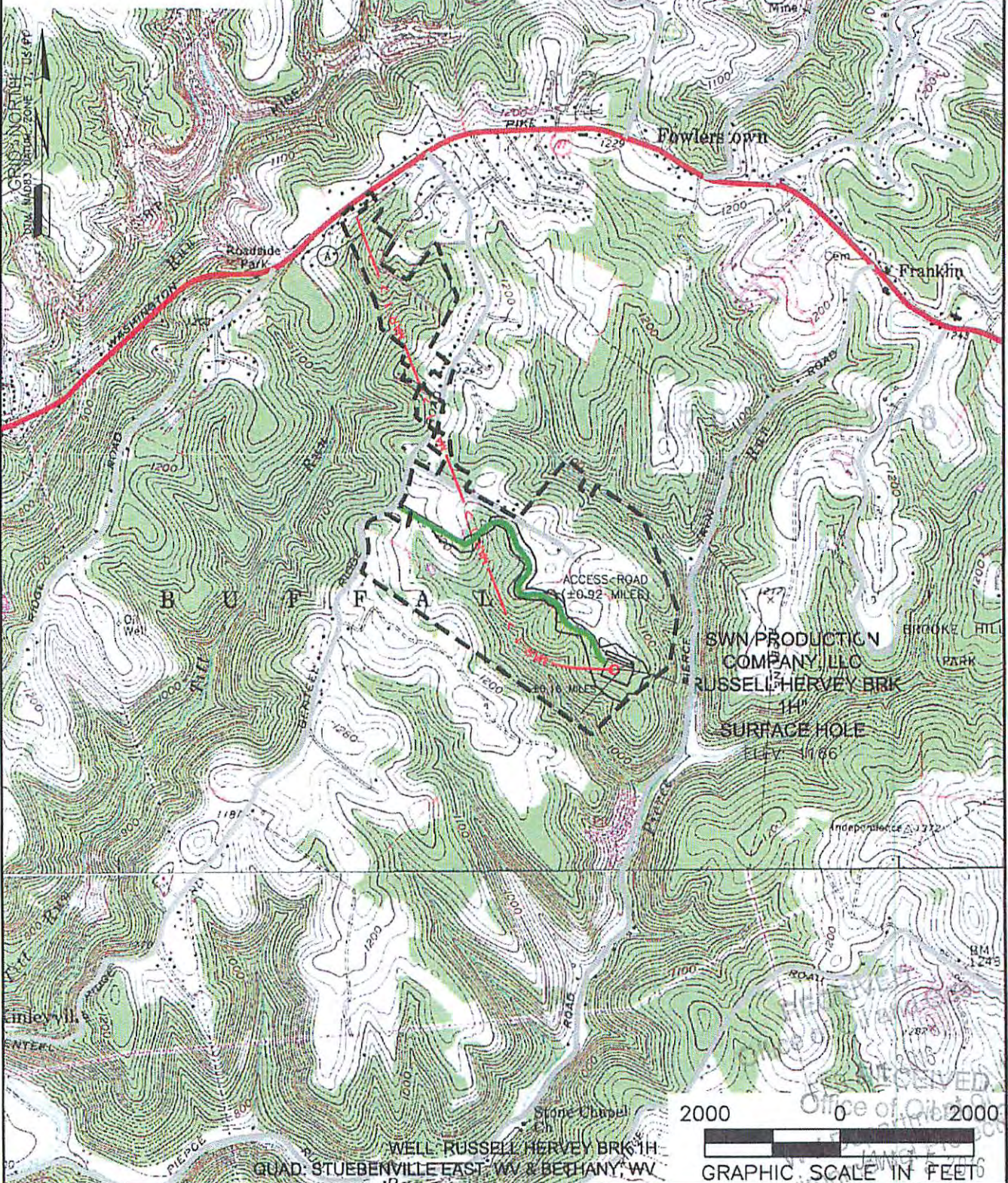
<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>RUSSELL HERVEY BRK</p> <p>OPERATOR'S WELL #: 1H</p> <p>API WELL #: 47 009 00178 HCA</p>
	<p>WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input type="checkbox"/> DEEP <input type="checkbox"/> GAS <input checked="" type="checkbox"/> LIQUID INJECTION <input type="checkbox"/> STORAGE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: BUFFALO CREEK</p> <p>DISTRICT: BUFFALO COUNTY: BROOKE</p> <p>SURFACE OWNER: RUSSELL D. HERVEY</p> <p>OIL & GAS ROYALTY OWNER: RUSSELL D. HERVEY & LISA K. HERVEY</p>	<p>ELEVATION: 1166'</p> <p>QUADRANGLE: STEUBENVILLE</p> <p>ACREAGE: ±37.84</p> <p>ACREAGE: ±37.84</p>

<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p>	<p>DESIGNATED AGENT: DEE SOUTHALL</p> <p>ADDRESS: P.O. BOX 1300</p> <p>CITY: JANE LEW STATE: WV ZIP CODE: 26378</p>
---	---

<p>LEGEND:</p> <ul style="list-style-type: none"> ○ 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 	<p>REVISIONS:</p> <table border="1"> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> <tr> <td> </td> <td> </td> </tr> </table>							<p>DATE: 03-30-2016</p> <p>DRAWN BY: E. LYTLE</p> <p>SCALE: 1" = 2000'</p> <p>DRAWING NO: 050-5495</p> <p>WELL LOCATION PLAT</p>

THRASHER

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



NAME AND DISTANCE TO THE NEAREST STREAM: AN UN-NAMED TRIBUTARY TO PIERCE RUN IS LOCATED ±0.16 MILES SOUTHWEST OF THE CENTER OF THE DRILL PAD.		STREAM CROSSING COORDINATES (NAD 83): A. LAT: 40.275870° / LONG: -80.570052°		COMPANY: SWN Production Company, LLC	
WELL RESTRICTIONS: WELL PAD, LOD, & E & S CONTROL FEATURES TO PERENNIAL STREAM, LAKE, POND, RESERVOIR OR WETLAND: >100 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO NATURALLY PRODUCING TROUT STREAM: >300 FEET WELL PAD, LOD, & E & S CONTROL FEATURES TO GROUNDWATER INTAKE OR PUBLIC WATER SUPPLY: >1000 FEET WELL SHL TO EXISTING WATER WELL OR DEVELOPED SPRING: >250 FEET CENTER OF PAD TO OCCUPIED DWELLING STRUCTURE: >625 FEET CENTER OF PAD TO AGRICULTURAL BUILDINGS LARGER THAN 2500 SQ FT: >625 FEET		OPERATOR'S: RUSSELL HERVEY BRK		WELL #: 1H	
FEMA FLOOD INFORMATION: NO FLOOD ZONES.		LOCATION: BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.258164° LONGITUDE: -80.556650°	
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ○ EXISTING / PRODUCING WELLHEAD ○ ABANDONED WELL ○ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR ○ EXISTING SPRING ○ EXISTING WATER WELL — ACCESS ROAD — ACCESS ROAD TO PREV. SITE — HIGHWAY/INTERSTATE — COUNTY ROAD		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.276530° LONGITUDE: -80.570378°		REVISIONS: DATE: 12-14-2015 DRAWN BY: E. LYTLE SCALE: 1" = 2000' DRAWING NO: 050-5495 TOPOGRAPHIC MAP	