

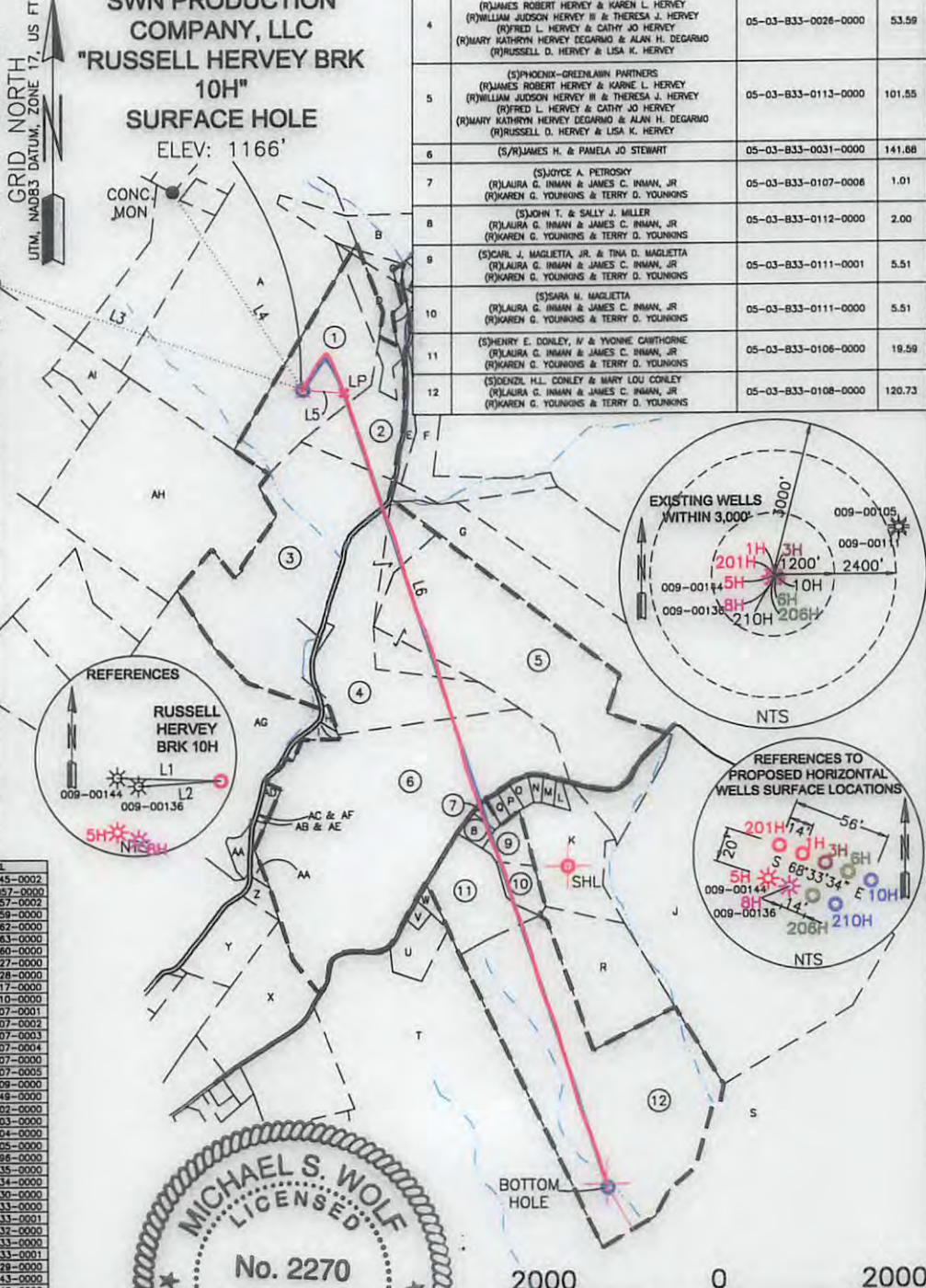


THE THRASHER GROUP, INC.
 600 WHITE OAKS BLVD.
 BRIDGEPORT, WV 26330
 PHONE 304-624-4108
 NOTES ON SURVEY

- 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 200 FEET OF LIMITS OF DISTURBANCE.

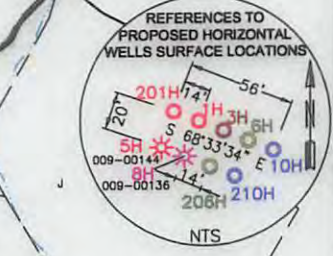
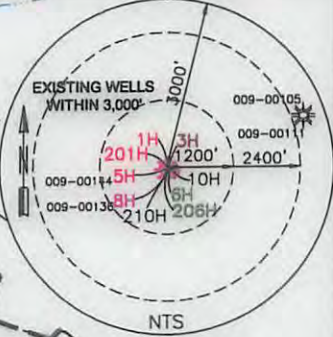
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT	TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL	ACRES
L1	N 88°16'15" W	58.77'	SHL TO SH	EXISTING WELL HEAD	1	(S)RUSSELL D. HERVEY (R) RUSSELL D. HERVEY & LISA K. HERVEY	05-03-828-0045-0000	37.84
L2	S 86°16'50" W	48.81'	SHL TO BH	EXISTING WELL HEAD	2	(S)BROOKE COUNTY PARK COMMISSION (R)MICHAEL GUST (R)WYNDIA GUST ABELTIT (R)JAN GUST LEVIN	05-03-828-0084-0000	135.00
L3	N 70°38'16" W	3718.41'	SHL TO LANDMARK	IRF FOUND	3	(S/R)STARVAGGI INDUSTRIES	05-03-833-0025-0000	81.23
L4	N 33°14'15" W	2687.41'	SHL TO LANDMARK	CONCRETE MONUMENT	4	(S)STARVAGGI INDUSTRIES (R)JAMES ROBERT HERVEY & KAREN L. HERVEY (R)WILLIAM JUDDSON HERVEY II & THERESA J. HERVEY (R)FRED L. HERVEY & CATHY JO HERVEY (R)MARY KATHRYN HERVEY DEGARMO & ALAN H. DEGARMO (R)RUSSELL D. HERVEY & LISA K. HERVEY	05-03-833-0026-0000	53.59
L5	S 86°41'07" E	472.85'	SHL TO LP	LANDING POINT	5	(S)PHOENIX-GREENLAWN PARTNERS (R)JAMES ROBERT HERVEY & KAREN L. HERVEY (R)WILLIAM JUDDSON HERVEY II & THERESA J. HERVEY (R)FRED L. HERVEY & CATHY JO HERVEY (R)MARY KATHRYN HERVEY DEGARMO & ALAN H. DEGARMO (R)RUSSELL D. HERVEY & LISA K. HERVEY	05-03-833-0113-0000	101.55
L6	S 18°19'46" E	9468.58'	LP TO BHL	BOTTOM HOLE	6	(S/R)JAMES H. & PAMELA JO STEWART	05-03-833-0031-0000	141.68
					7	(S)JOYCE A. PETROSIY (R)LAURA G. INMAN & JAMES C. INMAN, JR (R)KAREN G. YOUNGINS & TERRY D. YOUNGINS	05-03-833-0107-0006	1.01
					8	(S)JOHN T. & SALLY J. MILLER (R)LAURA G. INMAN & JAMES C. INMAN, JR (R)KAREN G. YOUNGINS & TERRY D. YOUNGINS	05-03-833-0112-0000	2.00
					9	(S)CHRIS J. MAGLIETTA JR. & TINA D. MAGLIETTA (R)LAURA G. INMAN & JAMES C. INMAN, JR (R)KAREN G. YOUNGINS & TERRY D. YOUNGINS	05-03-833-0111-0001	5.51
					10	(S)SARA M. MAGLIETTA (R)LAURA G. INMAN & JAMES C. INMAN, JR (R)KAREN G. YOUNGINS & TERRY D. YOUNGINS	05-03-833-0111-0000	5.51
					11	(S)HENRY E. DONLEY, IV & YVONNE CANTHORNE (R)LAURA G. INMAN & JAMES C. INMAN, JR (R)KAREN G. YOUNGINS & TERRY D. YOUNGINS	05-03-833-0106-0000	19.59
					12	(S)DENZIL H. CONLEY & MARY LOU CONLEY (R)LAURA G. INMAN & JAMES C. INMAN, JR (R)KAREN G. YOUNGINS & TERRY D. YOUNGINS	05-03-833-0108-0000	120.73

SWN PRODUCTION COMPANY, LLC
"RUSSELL HERVEY BRK 10H"
SURFACE HOLE
 ELEV: 1166'



SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,501.097 EASTING: 537,713.313
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,492.764 EASTING: 537,857.197
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,453,753.737 EASTING: 538,764.601
SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,501.097 EASTING: 537,713.313
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,456,451.936 EASTING: 537,870.623
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,453,741.911 EASTING: 538,767.304

TRACT	ADJOINER	PARCEL
A	WILLIAM JUDDSON HERVEY, III	05-03-828-0045-0002
B	DONALD M. AND JANICE F. EATON	05-03-828-0057-0000
C	BERNARD J. KNORR, III AND NICOLE C. KNORR	05-03-828-0057-0002
D	BERNARD J. KNORR, III AND NICOLE C. KNORR	05-03-828-0059-0000
E	STARVAGGI INDUSTRIES	05-03-828-0062-0000
F	STARVAGGI INDUSTRIES	05-03-828-0063-0000
G	BROOKE COUNTY PARK COMMISSION	05-03-828-0060-0000
H	STELLA MERWICK	05-03-833-0027-0000
I	THEODORE E. AND MELISSA A. EATON	05-03-833-0028-0000
J	BARBARA A. WALES	05-03-834-0017-0000
K	BARBARA A. WALES	05-03-833-0110-0000
L	CHARLES L. AND LAURA J. MCGOWAN	05-03-833-0107-0001
M	CHARLES L. AND LAURA J. MCGOWAN	05-03-833-0107-0002
N	CHARLES L. AND LAURA J. MCGOWAN	05-03-833-0107-0003
O	CHARLES L. AND LAURA J. MCGOWAN	05-03-833-0107-0004
P	DON KOSCEVIC, ET AL	05-03-833-0107-0000
Q	JAMIE D. BURNS	05-03-833-0107-0005
R	MARLENE K. HUKILL	05-03-833-0109-0000
S	MARK W. OWEN AND VIRGINIA B. KREUTZ	05-03-834-0049-0000
T	CHARLES R. CORBIN, JR., ET AL	05-03-833-0103-0000
U	CHARLES R. CORBIN, JR.	05-03-833-0103-0000
V	CHARLES R. CORBIN, JR. AND MARGARET L. CORBIN	05-03-833-0104-0000
W	MARGARET E. CORBIN	05-03-833-0105-0000
X	MELVIN AND DORIS CULBERTSON	05-03-833-0096-0000
Y	PHOENIX-GREENLAWN PARTNERS, LP	05-03-833-0035-0000
Z	PHOENIX-GREENLAWN PARTNERS, LP	05-03-833-0033-0000
AA	SHARON CUNNINGHAM	05-03-833-0030-0000
BB	DONALD M. AND JANICE F. EATON	05-03-833-0033-0000
CC	SHARON A. CUNNINGHAM	05-03-833-0033-0001
DD	SHARON A. CUNNINGHAM	05-03-833-0032-0000
EE	DONALD M. AND JANICE F. EATON	05-03-833-0033-0000
FF	SHARON A. CUNNINGHAM	05-03-833-0033-0001
GG	PHOENIX-GREENLAWN PARTNERS, LP	05-03-833-0029-0000
HH	MICHAEL WHITCO, ET AL	05-03-828-0043-0000
II	RANDY R. AND PATRICIA J. GRAHAM	05-03-828-0042-0000



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

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL & GAS 601 57TH STREET CHARLESTON, WV 25034</p>	MINIMUM DEGREE OF ACCURACY: 1/200 PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)	COMPANY: SWN Production Company, LLC	OPERATOR'S WELL #: RUSSELL HERVEY BRK 10H
	WELL TYPE: OIL <input type="checkbox"/> WASTE DISPOSAL <input type="checkbox"/> PRODUCTION <input checked="" 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"/>	WATERSHED: BUFFALO CREEK DISTRICT: BUFFALO COUNTY: BROOKE	API WELL #: 47 009 00170 STATE COUNTY PERMIT
DRILL <input checked="" type="checkbox"/> DRILL DEEPER <input type="checkbox"/> REDRILL <input type="checkbox"/> FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION <input type="checkbox"/> PERFORATE NEW FORMATION <input type="checkbox"/>	CONVERT <input type="checkbox"/> PLUG & ABANDON <input type="checkbox"/> CLEAN OUT & REPLUG <input type="checkbox"/> OTHER CHANGE <input checked="" type="checkbox"/> (SPECIFY) AS-DRILLED	TARGET FORMATION: MARCELLUS	ESTIMATED DEPTH: 6,044' TVD 15,644' 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	REVISIONS:	DATE: 06-27-2017
LEGEND: ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ✖ EXISTING / PRODUCING WELLHEAD ✖ ABANDONED WELL ✖ PLUGGED & ABANDONED WELL △ CUT CONDUCTOR	--- LEASE BOUNDARY --- AS-DRILLED PATH --- PROPOSED PATH --- ABANDONED PATH	DRAWN BY: R.DOERR SCALE: 1" = 2000' DRAWING NO: 050-5495 WELL LOCATION PLAT	PROPERTY NUMBER 2501163270 PAD ID 3001156180