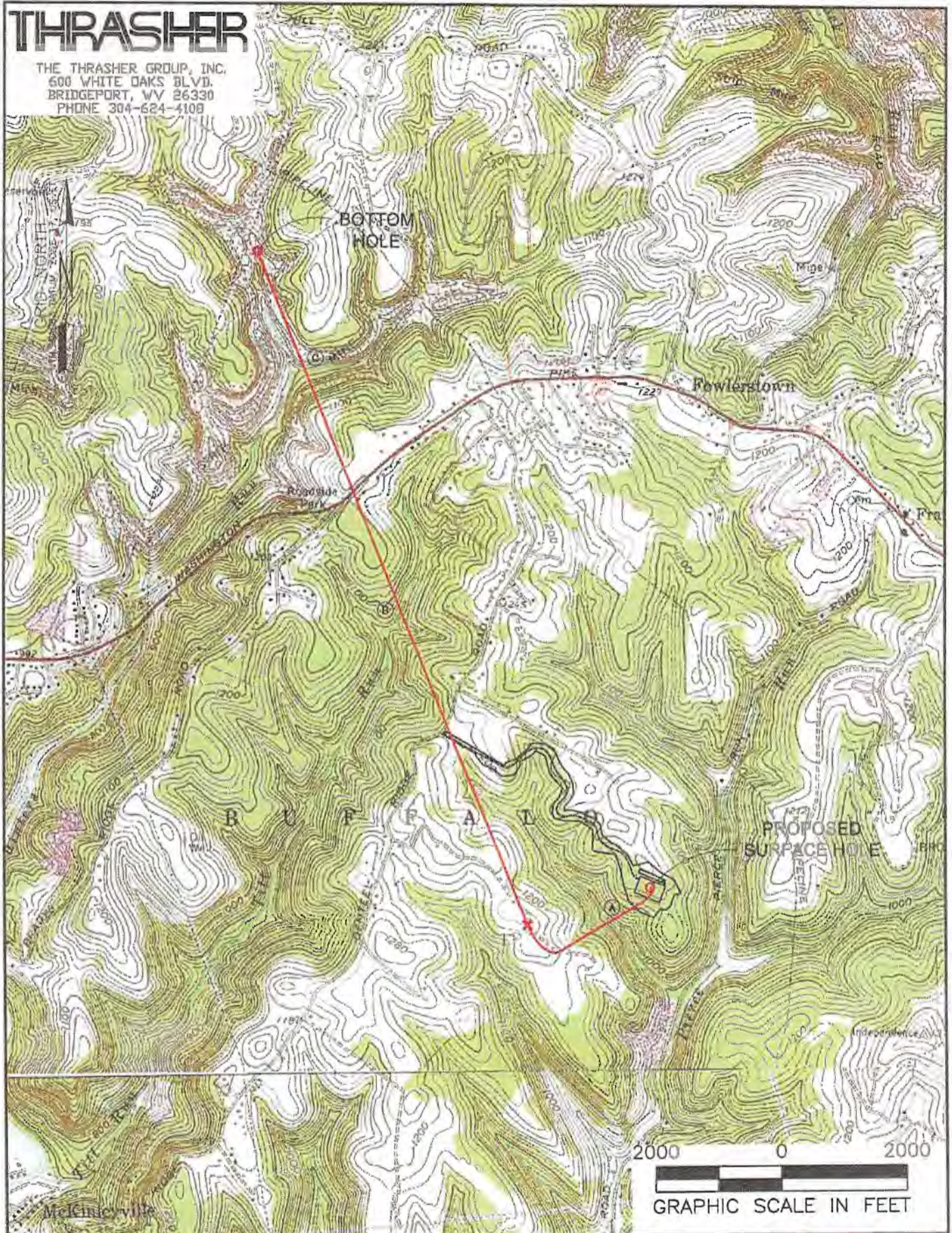


# THRASHER

THE THRASHER GROUP, INC.  
600 WHITE OAKS BLVD.  
BRIDGEPORT, WV 26330  
PHONE 304-624-4100



<b>NAME AND DISTANCE TO THE NEAREST STREAM:</b> AN UN-NAMED TRIBUTARY TO PIERCE RUN IS LOCATED ±0.16 MILES SOUTHWEST OF THE CENTER OF THE DRILL PAD.		<b>STREAM CROSSING COORDINATES (NAD 83):</b> A) LAT: 40.25666784° LONG: -80.55876917° B) LAT: 40.27006812° LONG: -80.57057810° C) LAT: 40.28044610° LONG: -80.57601764°		<b>COMPANY:</b> 	
<b>WELL RESTRICTIONS:</b> 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		<b>OPERATOR'S</b> RUSSELL HERVEY BRK			
<b>FEMA FLOOD INFORMATION:</b> NO FLOOD ZONES.		<b>WELL #:</b> 201H		<b>LOCATION:</b> BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA	
<b>LEGEND:</b> ○ 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		<b>SURFACE HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.25810725° LONGITUDE: -80.55646372°	
		<b>BOTTOM HOLE LOCATION:</b> GEOGRAPHIC (NAD83): LATITUDE: 40.28560758° LONGITUDE: -80.57872133°		<b>REVISIONS:</b>	
		<b>DATE:</b> 10-21-2019		<b>DRAWN BY:</b> K. POTH <b>SCALE:</b> 1" = 2000' <b>DRAWING NO:</b> 050-5495 <b>TOPOGRAPHIC MAP</b>	

# THRASHER

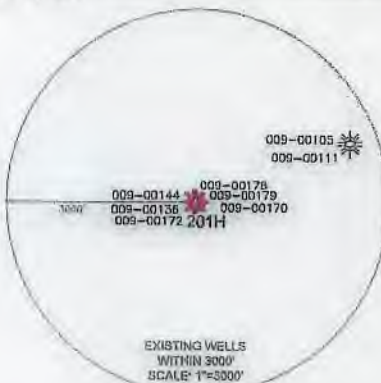
THE THRASHER GROUP, INC.  
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## NOTES ON SURVEY

- 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.

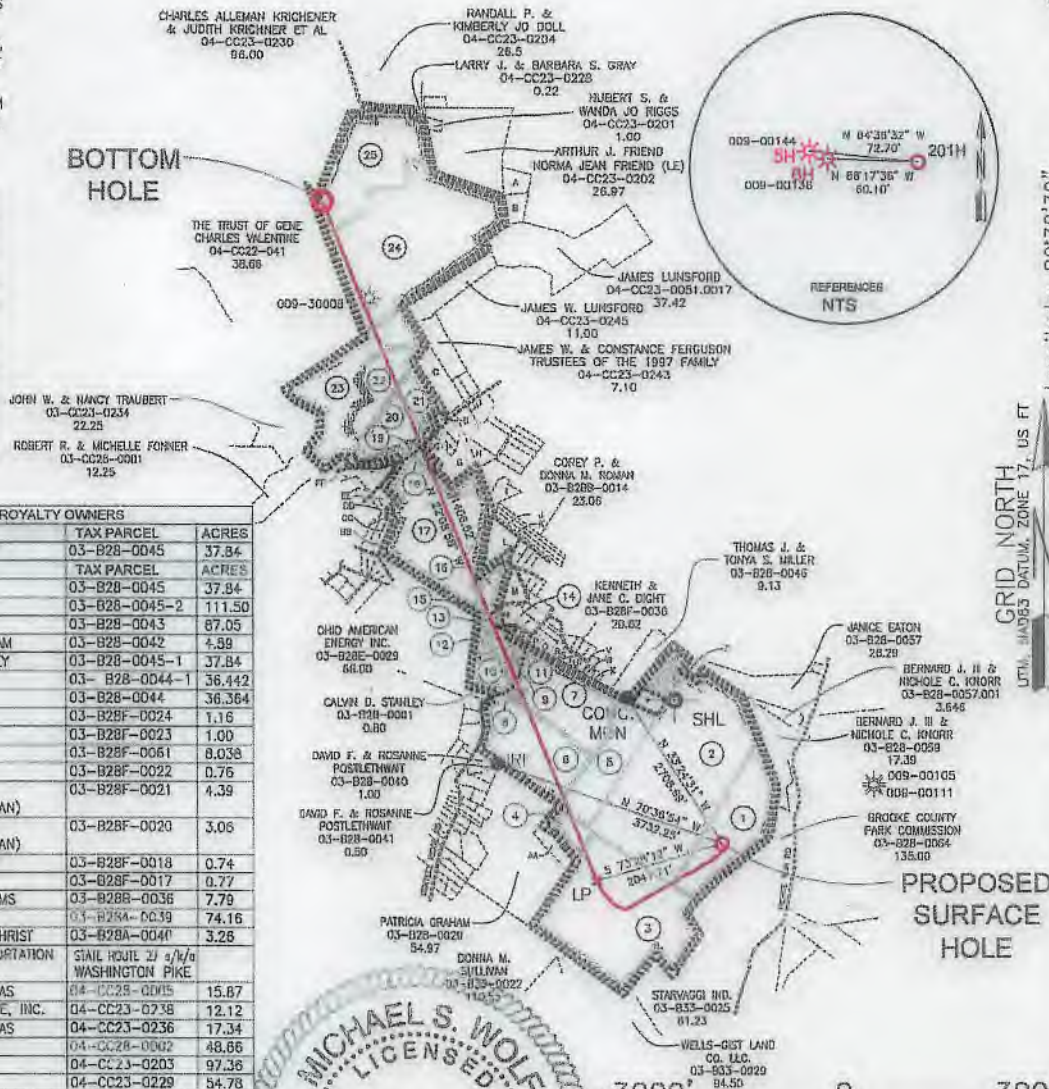
Latitude: 40°17'30" SURFACE HOLE 4,198'

BOTTOM HOLE 7,047'



SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,456,499.58	
EASTING: 537,717.25	
LANDING POINT LOCATION (LPL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,456,322.52	
EASTING: 537,120.66	
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	
NORTHING: 4,459,542.78	
EASTING: 535,810.01	

WELL BORE TABLE FOR SURFACE / ROYALTY OWNERS			
TRACT	ROYALTY OWNER	TAX PARCEL	ACRES
1	RUSSELL D. & LISA K. HERVEY	03-B28-0045	37.84
1	RUSSELL D. HERVEY	03-B28-0045	37.84
2	WILLIAM JUDSON HERVEY III	03-B28-0045-2	111.50
3	PATRICIA GRAHAM	03-B28-0043	87.05
4	RANDY GRAHAM & PATRICIA GRAHAM	03-B28-0042	4.88
5	FREDERICK L. & CATHY JO HERVEY	03-B28-0045-1	37.84
6	DEWITT STANLEY	03-B28-0044-1	36.442
7	ROBERT C. STANLEY	03-B28-0044	36.364
8	ELLEN STANLEY	03-B28F-0024	1.16
9	MARtha HALL ET AL	03-B28F-0023	1.00
10	DEWITT STANLEY	03-B28F-0061	8.038
11	MELISSA RICHARDSON	03-B28F-0022	0.76
12	CHARLES G. THORNE (LE), THERESA ANN LYNCH (REMAINDERMAN)	03-B28F-0021	4.39
13	CHARLES G. THORNE (LE), THERESA ANN LYNCH (REMAINDERMAN)	03-B28F-0020	3.06
14	JOHN & NANCY BAUMBARTNER	03-B28F-0018	0.74
15	DAVID A. SESLER	03-B28F-0017	0.77
16	RICHARD IRVIN & PATRICIA ANN SIMS	03-B28B-0036	7.79
17	FOUR SWANS LP	03-B28A-0039	74.16
18	DANIEL L. GILCHRIST & JO ANN GILCHRIST	03-B28A-0040	3.28
19	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	STATE ROUTE 21 s/w/a WASHINGTON PIKE	
20	WILLIAM R. & MARGARET L. AFTANAS	04-CC28-0015	15.87
21	WELL SEBORG CHURCH OF THE NAZARENE, INC.	04-CC23-0238	12.12
22	WILLIAM R. & MARGARET L. AFTANAS	04-CC23-0236	17.34
23	SCHAFPA & COMPANY INC	04-CC28-0002	48.86
24	JAMES LUNSFORD	04-CC23-0203	97.38
25	DONNA KATHRYN HALL	04-CC23-0229	54.78



Longitude: 80°32'30" SURFACE HOLE 12,244'

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



GRAPHIC SCALE IN FEET

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

*Michael S. Wolf* 10/21/19

<p>(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS</p> <p>WVDEP OFFICE OF OIL &amp; GAS 601 57TH STREET CHARLESTON, WV 25034</p>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)</p>	<p>OPERATOR'S WELL #: 201H</p> <p>API WELL #: 47 009 00291</p> <p>STATE COUNTY PERMIT</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 &amp; GAS ROYALTY OWNER: RUSSELL D. HERVEY &amp; LISA K. HERVEY</p> <p>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</p> <p>CONVERT <input type="checkbox"/> PLUG &amp; ABANDON <input type="checkbox"/> CLEAN OUT &amp; REPLUG <input type="checkbox"/> OTHER CHANGE <input type="checkbox"/> (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,878' TVD 18,151' TMD</p>	<p>DESIGNATED AGENT: BRITTANY WOODY</p> <p>ADDRESS: 1300 FORT PIERPONT DRIVE SUITE 201</p> <p>CITY: MORGANTOWN STATE: WV ZIP CODE: 26508</p>
<p>LEGEND:</p> <ul style="list-style-type: none"> <li>○ PROPOSED SURFACE HOLE / BOTTOM HOLE</li> <li>★ EXISTING / PRODUCING WELLHEAD</li> <li>LPL ★ LANDING POINT LOCATION</li> <li>○ EXISTING WATER WELL</li> <li>○ EXISTING SPRING</li> <li>--- SURVEYED BOUNDARY</li> <li>--- DRILLING UNIT</li> <li>--- LEASE BOUNDARY</li> <li>--- PROPOSED PATH</li> </ul>	<p>REVISIONS:</p> <p>DATE: 10-21-2019</p> <p>DRAWN BY: K. POTH</p> <p>SCALE: 1" = 3000'</p> <p>DRAWING NO: 050-5495</p> <p>WELL LOCATION PLAT</p>	

# THRASHER

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BRIDGEPORT, WV 26330  
PHONE 304-624-4108

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	MICHAEL J. COEN	04-CC23-0172	3.20
B	KEITH M. & CHRISTOL A. MOORE	04-CC23-0171	3.55
C	EDITH E. McCOMBS	04-CC23-0239	7.00
D	NAZARENE CHURCH	04-CC23-0237	0.67
E	W. GEORGE JR. & MARGARET SHEPERD	03-B23P-0001	0.77
F	W. GEORGE JR. & MARGARET JEANE SHEPERD	03-B28B-0001	0.67
G	DANIEL L. & JOANNE GILCHRIST	03-B28B-0056	5.74
H	WILLIAM L. CONLEY	03-B28B-0002	2.13
I	RICHARD A. & CINDY A. CHAMP	03-B28B-0015	2.73
J	MARILYN TAYLOR	03-B28B-0029	1.98
K	MARILYN TAYLOR	03-B28B-0030	1.46
L	DOROTHY M. COX	03-B28B-0035	5.20
M	JEFFREY W. DORRANCE JR.	03-B28F-0010	2.609
N	DAVID A. SESLER SR.	03-B28F-0016	0.75
O	WALTER E. JR. & RHONDA L. MARTINDILL	03-B28F-0019	0.86
P	BRIAN SOLY & KELLY HORVATH	03-B28F-0026	0.84
Q	THOMAS R. BLOOM	03-B28F-0027	0.86
R	TIMOTHY J. STANLEY	03-B28F-0028	1.04
S	BRIAN E. & MARANDA S. JOHNSON	03-B28F-0029	0.74
T	JAMES LANDWEHR SR.	03-B28F-0030	0.56
U	GEORGE WILLIAM & ROSEANNE BUXTON	03-B28F-0031	0.60
V	JAMES L. & DIANNE L. STOCK	03-B28F-0032	0.62
W	MICHAEL E. & DIANE M. DIGHT	03-B28F-0033	0.37
X	DAVID & DIANA PERINE	03-B28F-0035	0.50
Y	CHARLIE D. & BRITNEY L. FARRIS	03-B28-0045-4	3.26
Z	JAMES ROBERT & KAREN L. HERVEY	03-B28-0045-3	1.01
AA	RANDY & PATRICIA GRAHAM	03-B28-0029-1	3.39
BB	MARTHA L. DIAMOND	03-B28A-0028	1.33
CC	GERALD W. SMITH	03-B28A-0029	1.26
DD	SANDRA K. BEAVER	03-B28A-0037	0.82
EE	MATTHEW JAMES RHODES	03-B28A-0038	1.51
FF	WILLIAM R. & MARGARET L. AFTANAS	04-CC28-0003	0.93
GG	RICKY L. JR. & THERESA JO TAYLOR	03-B28A-0041	1.11

COMPANY: **SWN**   
Production Company, LLC Production Company™

REVISIONS:	DATE: 10-21-2019
	SHEET 2 OF 2
	DRAWN BY: K. POTH
	SCALE: NOT TO SCALE
	DRAWING NO: 050-5495
	WELL LOCATION PLAT