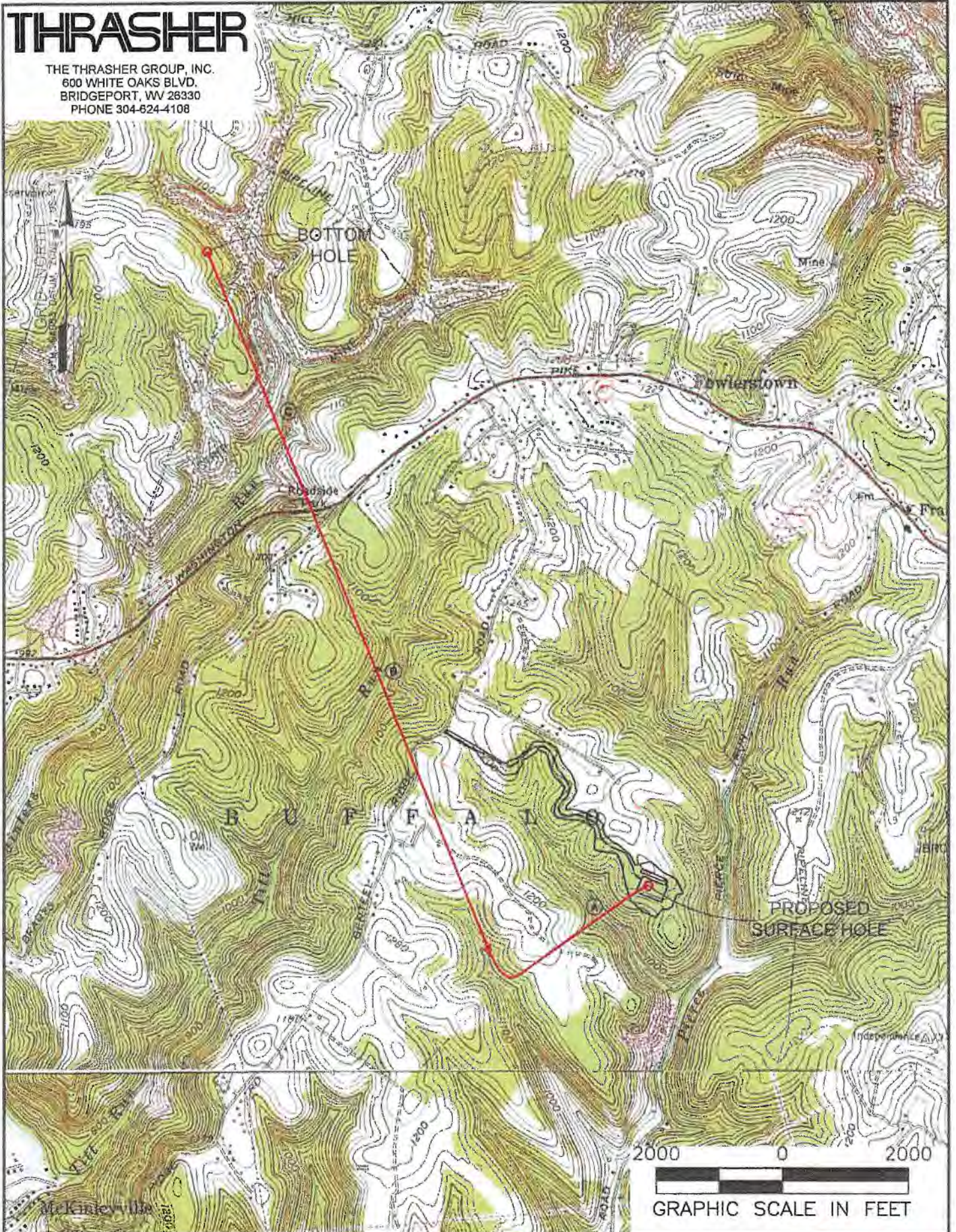













THRASHER

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: 40.25686982° LONG: -80.55936371° B) LAT: 40.26712200° LONG: -80.57192835° C) LAT: 40.27841484° LONG: -80.57785063°		COMPANY:  	
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: >825 FEET		OPERATOR'S RUSSELL HERVEY BRK WELL #: 401H		LOCATION: BUFFALO DISTRICT, BROOKE COUNTY, WEST VIRGINIA	
FEMA FLOOD INFORMATION: NO FLOOD ZONES.		SURFACE HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.25817773° LONGITUDE: -80.55669706°		BOTTOM HOLE LOCATION: GEOGRAPHIC (NAD83): LATITUDE: 40.28557100° LONGITUDE: -80.58160446°	
LEGEND:  PROPOSED SURFACE HOLE / BOTTOM HOLE  EXISTING / PRODUCING WELLHEAD  LPL  FLOOD PLAN  ACCESS ROAD  PUBLIC ROAD  ACCESS ROAD TO PREV. SITE  LEASE BOUNDARY  PROPOSED PATH		REVISIONS:		DATE: 10-21-2019 DRAWN BY: K. POTH SCALE: 1" = 2000' DRAWING NO: 050-5495 TOPOGRAPHIC MAP	

Latitude: 40°17'30" SURFACE HOLE 4,252'

BOTTOM HOLE 11,237'

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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 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.



TRACT	ROYALTY OWNER	TAX PARCEL	ACRES
1	RUSSELL D. & LISA K. HERVEY	03-028-0045	37.84
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
1	RUSSELL D. HERVEY	03-028-0045	37.84
2	WILLIAM JUDSON HERVEY III	03-028-0045-2	111.50
3	PATRICIA GRAHAM	03-028-0043	87.05
4	PATRICIA GRAM	03-028-0029	54.97
5	DEWITT STANLEY	03-028-0244-1	36.147
6	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	GENESEE RIDGE RD	
7	DANIEL J. STANLEY	03-028-0003-1	2.41
8	ALLISON M. STANLEY & TIMOTHY M. WILLIAMS	03-028-0003	1.33
9	CALVIN D. & LYNETTE I. STANLEY	03-028-0002	1.16
10	CALVIN D. STANLEY	03-028-0001	0.80
11	DEWITT STANLEY	03-028F-0061	8.03
12	OHIO AMERICAN ENERGY INC.	03-028E-0029	68.00
13	FOUR SWANS LP	03-028A-0039	74.28
14	MATTHEW JAMES RHODES	03-028A-0038	1.51
15	RANDALL G. & STEPHANIE L. SASS	03-028A-0007	1.428
16	STATE ROAD COMMISSION	03-028A-0006	1.83
17	WEST VIRGINIA DEPARTMENT OF TRANSPORTATION	STATE ROUTE 27 off/0 WASHINGTON PIKE	
18	WILLIAM R & MARGARET L. AFTANAS	03-CC28-0005	15.87
19	WILLIAM R & MARGARET L. AFTANAS	04-CC23-0236	17.34
20	SCHIPPA AND COMPANY INC.	04-CC28-0002	48.68
21	THE TRUST OF GENE CHARLES	04-CC22-0041	38.68

BOTTOM HOLE 2,277'

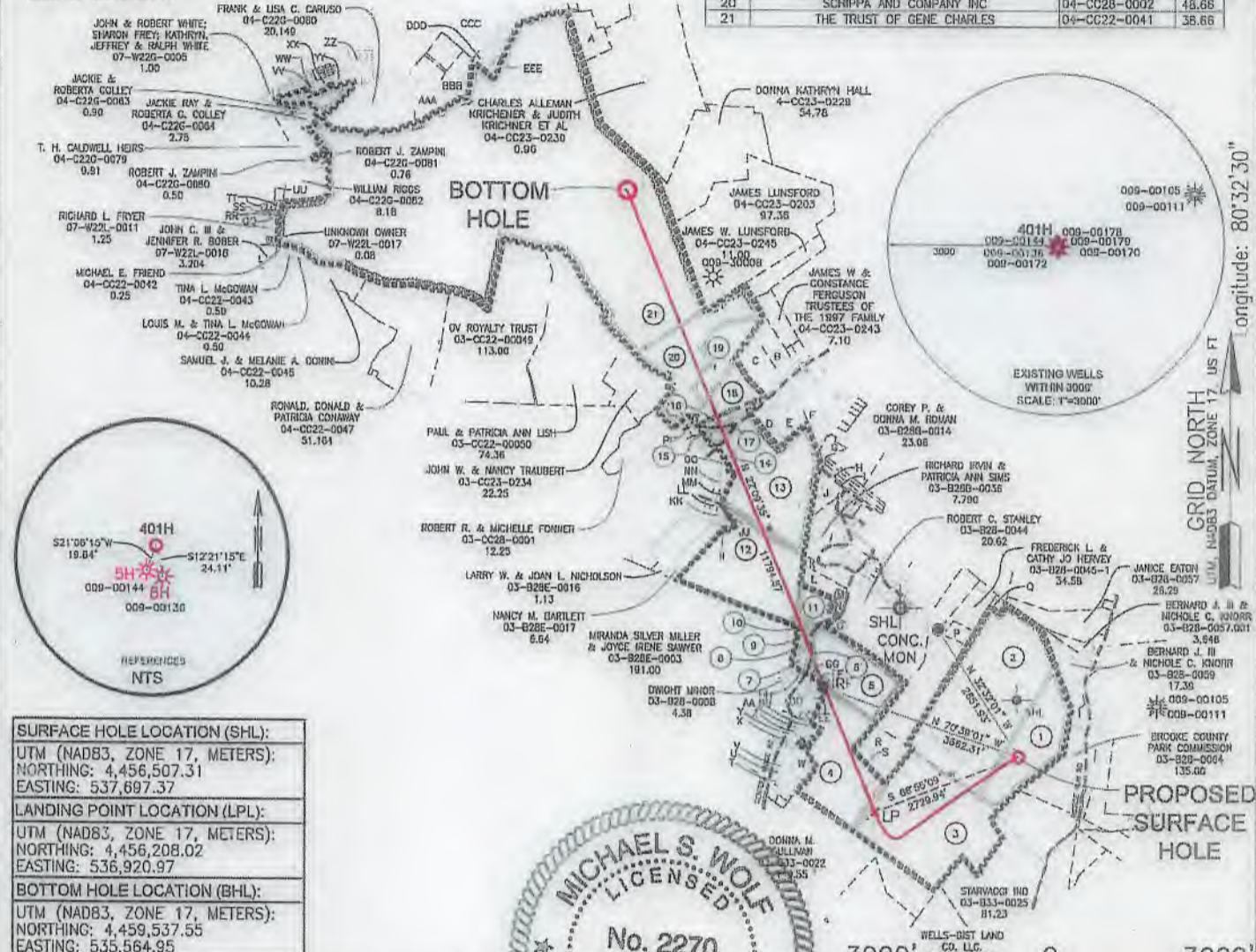
BOTTOM HOLE 12,222'

LONGITUDE: 80°32'30"

GRID NORTH US FT

UTM, NAD83 DATUM, ZONE 17

EXISTING WELLS WITHIN 3000' SCALE: 1"=3000'



SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,456,507.31
EASTING: 537,697.37
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,456,208.02
EASTING: 536,920.97
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS):
NORTHING: 4,459,537.55
EASTING: 535,564.95

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.



GRAPHIC SCALE IN FEET

P.S. 2270 *[Signature]* 10/21/19

COMPANY: **SWN** Production Company, LLC



(+) 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)

RUSSELL HERVEY BRK
OPERATOR'S WELL #: 401H
API WELL #: 47 009 00292
STATE COUNTY PERMIT

WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: BUFFALO CREEK ELEVATION: 1166.2'

DISTRICT: BUFFALO COUNTY: BROOKE QUADRANGLE: STUBENVILLE EAST

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: 5,874' TVD 18,766' TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY
ADDRESS: 1300 FORT PIERPONT DRIVE SUITE 201 ADDRESS: 1300 FORT PIERPONT DRIVE SUITE 201
CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	REVISIONS:	DATE: 10-21-2019
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— SURVEYED BOUNDARY	
★ EXISTING / PRODUCING WELLHEAD	— DRILLING UNIT	
LPL ✖ LANDING POINT LOCATION	==== LEASE BOUNDARY	
● EXISTING WATER WELL	— PROPOSED PATH	
● EXISTING SPRING		
		DRAWN BY: K. POTH
		SCALE: 1" = 3000'
		DRAWING NO: 050-5495
		WELL LOCATION PLAT



THE THRASHER GROUP, INC.
600 WHITE OAKS BLVD.
BRIDGEPORT, WV 26330
PHONE 304-824-4108

ADJOINING OWNERS TABLE			
TRACT	SURFACE OWNER	TAX PARCEL	ACRES
A	CAROLYN F. FREEMAN	04-CC22-0025	9.00
B	EDITH E. McCOMBS	04-CC23-0239	7.00
C	NAZARENE CHURCH	04-CC23-0238	12.12
D	DANIEL L. & JO ANN GILCHRIST	03-B28A-0040	3.26
E	DANIEL L. & JOANNE GILCHRIST	03-B28B-0056	5.74
F	WILLIAM L. CONLEY	03-B28B-0002	2.13
G	RICHARD A. & CINDY A. CHAMP	03-B28B-0015	2.73
H	MARILYN TAYLOR	03-B28B-0029	1.98
I	MARILYN TAYLOR	03-B28B-0030	1.46
J	DOROTHY M. COX	03-B28B-0035	5.20
K	THERESA ANN KING	03-B28F-0020	3.06
L	THERESA KING	03-B28F-0021	4.39
M	MELISSA RICHARDSON	03-B28F-0022	0.76
N	BETTY J. NICHOLSON	03-B28F-0023	1.00
O	ROBERT & ELLEN STANLEY	03-B28F-0024	11.16
P	CHARLIE D. & BRITNEY L. FARRIS	03-B28-0045-4	3.26
Q	JAMES ROBERT & KAREN L. HERVEY	03-B28-0045-3	1.01
R	RANDY R. & PATRICIA J. GRAHAM	03-B28-0042	4.59
S	RANDY & PATRICIA GRAHAM	03-B28-0029-1	3.39
T	RYAN S. & CAROLYN A. BOOK	03-B28-0025	1.60
U	DONALD & SHERRI YOHO	03-B28-0026	1.00
V	FRED H. & KELLI J. WENZEL	03-B28-0027	2.40
W	EILEEN & TERRANCE RIDGLEY	03-B28-0029-2	3.81
X	SHANNON L. & KAILI N. RIDGLEY	03-B28-0030	0.51
Y	SHANNON & KAILI N. RIDGLEY	03-B28-0031	0.72
Z	MICHAEL H. & LORNA M. WHITCO	03-B28-0032	0.58
AA	MICHAEL H. & LORNA M. WHITCO	03-B28-0033	1.00
BB	ANDREW & AMY MARLENE NICKERSON	03-B28-0035	0.85
CC	SUE E. HORNER	03-B28-0037	1.00
DD	DYLAN S. & HEATHER N. HUFF	03-B28-0038-1	2.20
EE	DONALD A. III & BARBARA SWEARINGEN	03-B28-0038	1.02
FF	DAVID F. & ROSEANNE POSTLETHWAIT	03-B28-0041	0.50
GG	DAVID F. & ROSEANNE POSTLETHWAIT	03-B28-0040	0.54
HH	RIKKI LEE & BRENDA SUE LONG	03-B28-0004	0.50
II	CARL RICHARD SMITH	03-B28E-0028	0.45
JJ	CARL RICHARD SMITH	03-B28E-0027	0.50
KK	HERMAN ALLEN & ANITA DAWN WILLIAMS	03-B28E-0026	0.91
LL	KENNETH E. & SHARON WILLIAMS	03-B28A-0027	0.83
MM	MARTHA L. DIAMOND	03-B28A-0028	1.33
NN	GERALD W. SMITH	03-B28A-0029	1.26
OO	SANDRA K. BEAVER	03-B28A-0037	0.82
PP	WILLIAM R. & MARGARET L. AFTANAS	04-CC28-0003	0.93
QQ	CHRISTINE L. ICE	07-W22L-0008	0.09
RR	CHRISTINE L. ICE	07-W22L-0009	0.10
SS	CHRISTINE L. ICE	07-W22L-0010	0.11
TT	LARRY N. & SANDRA K. CLEMONS	07-W22L-0004	0.36
UU	UNKNOWN OWNER	07-W22L-0005	1.99
VV	GEORGE ENNIS	04-C22G-0044	0.16
WW	GEORGE F. ENNIS	04-C22G-0045	0.16
XX	EARL W. MILLER JR	04-C22G-0046	0.62
YY	MARK KOSCEVIC	04-C22G-0032	1.1
ZZ	TERRY L. & LORA J. SMITH	04-C22C-0122	2.4
AAA	CHARLES R. BOGGS	04-C22G-0057	6.72
BBB	CHARLES ISINGHOOD SR	04-CC22-0032	13.00
CCC	JIMMIE D. & ROBIN J. GEORGE	04-CC22-0031	4.00
DDD	DALE E. & MARY K. ADAMS	04-CC22-0030	2.176
EEE	STEVEN P. & MARCY DIPASQUALE	04-CC22-0026	1.00

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