

Latitude: 40°20'00"

SURFACE HOLE 10,517'

Latitude: 40°22'30" BOTTOM HOLE

4,290'

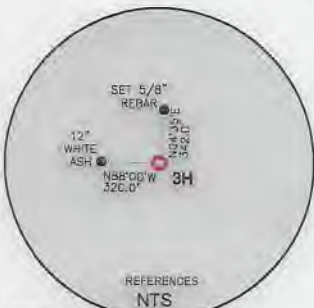
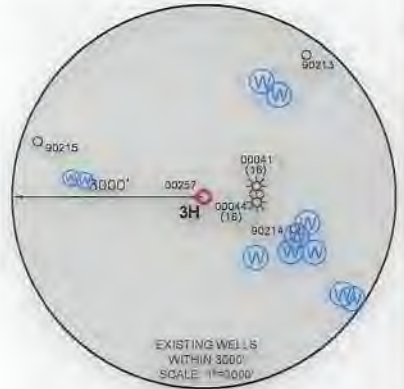
JACKSON SURVEYING INC.

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 66°39'21" W	1308.24'	SHL TO LANDMARK	2" IRON PIPE FOUND
L2	N 35°50'30" W	1026.36'	SHL TO LANDMARK	STONE FOUND
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 81°14'46" E	523.09'	1637.32'	SHL TO LP
L4	N 18°04'16" W	270.38'	270.47'	SHL TO LP
L5	N 19°11'28" W	382.15'	382.42'	SHL TO LP

SURFACE HOLE LOCATION (SHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,411.725 EASTING: 539,285.419
LANDING POINT LOCATION (LPL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,435.975 EASTING: 539,443.035
AZIMUTH POINT LOCATION-1 (AZL1): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,463,120.891 EASTING: 538,803.761
AZIMUTH POINT LOCATION-2 (AZL2): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,463,199.237 EASTING: 538,778.198
AZIMUTH POINT LOCATION-3 (AZL3): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,463,861.980 EASTING: 538,596.085
AZIMUTH POINT LOCATION-4 (AZL4): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,463,971.986 EASTING: 538,557.796
BOTTOM HOLE LOCATION (BHL): UTM (NAD83, ZONE 17, METERS): NORTHING: 4,466,184.402 EASTING: 537,617.886

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



SHL

WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
- NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
- NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
- NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, E & S CONTROLS OR PUBLIC WATER SUPPLY.

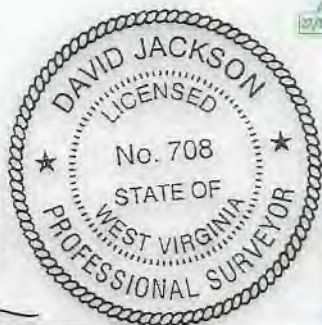
NOTES ON SURVEY

- SURFACE AND ROYALTY OWNER INFORMATION AND THEIR BOUNDARIES SHOWN HEREON WERE PLOTTED FROM DEEDS AND/OR TAX PARCEL MAPS PROVIDED BY CLIENT AND/OR FIELD LOCATIONS.
- THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.


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. 708

David L Jackson



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

 <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 SURVEY SOURCE OF GRADE GPS ELEVATION: (NAVD 88, US FT)	STATE OF WV DNR C BRK OPERATOR'S WELL #: 3H API WELL #: 47 009 00314 STATE COUNTY PERMIT
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WELL TYPE: OIL WASTE DISPOSAL PRODUCTION DEEP GAS LIQUID INJECTION STORAGE SHALLOW

WATERSHED: NORTH FORK CROSS CREEK - CROSS CREEK (HUC-10) ELEVATION: 990.0'

DISTRICT: CROSS CREEK COUNTY: BROOKE QUADRANGLE: STEUBENVILLE EAST, WV

SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858






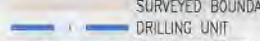

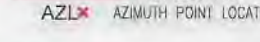



OIL & GAS ROYALTY OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

DRILL DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

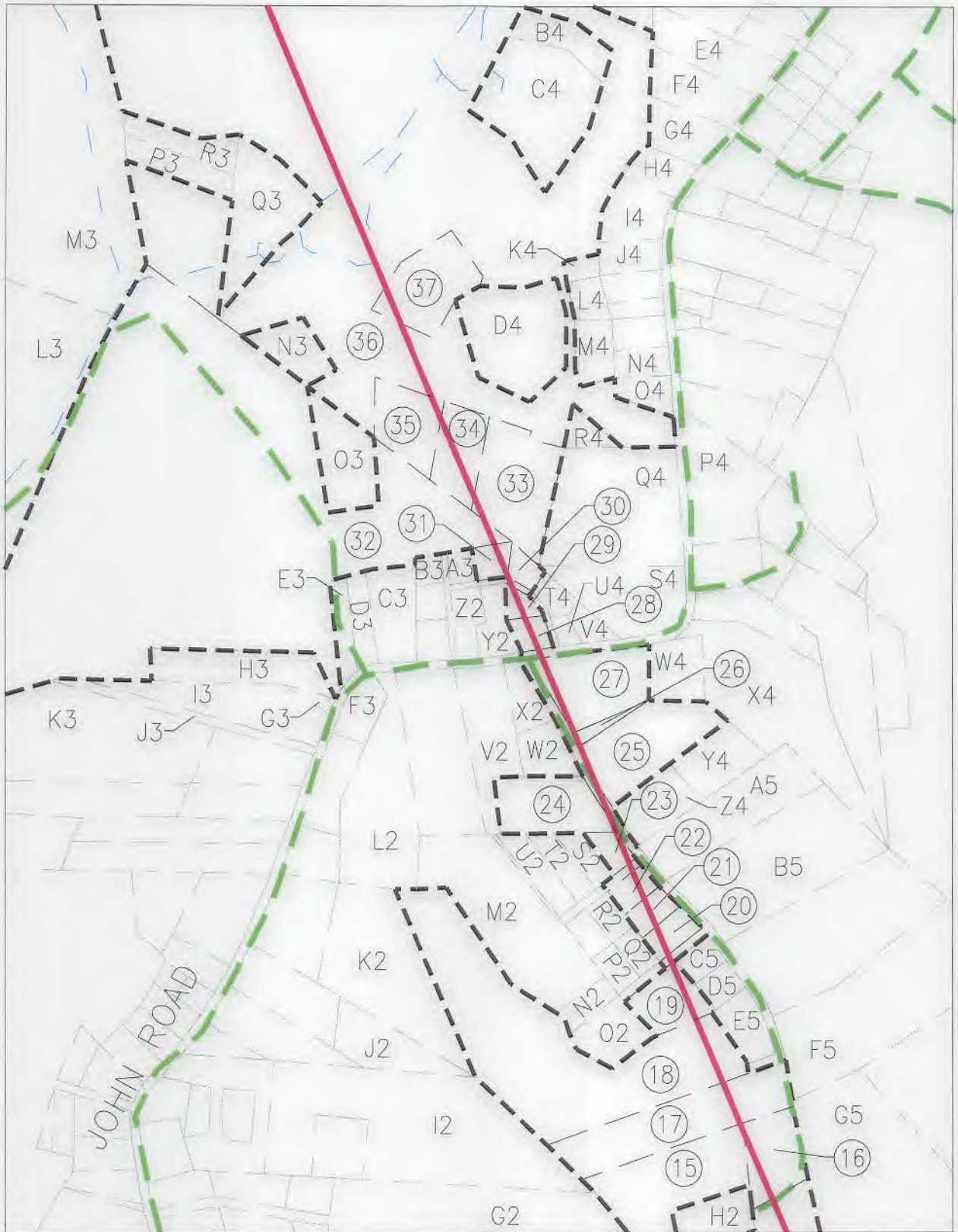
CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,629 TVD 22,845 TMD



WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508	DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508
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LEGEND:  PROPOSED SURFACE HOLE / BOTTOM HOLE  EXISTING / PRODUCING WELLHEAD  LPL* LANDING POINT LOCATION  EXISTING WATER WELL  EXISTING SPRING  SURVEYED BOUNDARY  DRILLING UNIT  LEASE BOUNDARY  PROPOSED PATH  AZL* AZIMUTH POINT LOCATION	REVISIONS:  REVISED REFERENCES 06-05-2020 DATE: 05-05-2020 DRAWN BY: N. MANO SCALE: 1" = 3000' DRAWING NO: WELL LOCATION PLAT
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JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26302
 304-623-5851



DETAIL "A"

REVISIONS:	COMPANY:		 
△ REVISED REFERENCES 06-05-2020			
	OPERATOR'S STATE OF WV DNR C BRK		DATE: 05-05-2020
	WELL #: 3H 47-009-00314		DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	SCALE: N/A
		STATE: WV	DRAWING NO:
			WELL LOCATION PLAT 2

**JACKSON SURVEYING
INC.**

2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

Well Bore Tracts

TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S/R)	4-CC20-06
TRACT	SURFACE OWNER	TAX PARCEL
2	EDWARD L. CARTER & DEBORAH C. CARTER (S)	4-CC20-17
3	EDWARD L. CARTER & DEBORAH C. CARTER (S)	4-CC20-18
4	GRETCHEN MOORE LANGEVIN, TRUSTEE & WESTBANCO BANK, INC. (S)	4-CC20-05
5	SUSAN BREEN & KELLY HANNAOUI, TRUSTEES OF THE WILLIAM C. SAUNDERS 2019 IRREVOCABLE TRUST DATED NOVEMBER 21, 2019 (S)	4-CC20-02
6	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC19-168
7	JASON P. NUZUM (S)	4-CC19-113
8	JASON P. NUZUM (S)	4-CC15-70
9	PETER D. BLASKOVICH & RUTH M. BLASKOVICH (S)	4-CC15-71
10	PETER D. BLASKOVICH & HELEN S. BLASKOVICH (S)	4-CC15-72
11	RYAN POWELL, & KELLY POWELL (S)	4-CC15-73
12	EVA B. CATLETT (S)	4-CC15-68
13	FRANK REED LARKEY (S)	4-CC15-68.2
14	LARRY REED (S)	4-CC15-67
15	LARRY REED (S)	4-C15H-09
16	BETTY S. LANCASTER & LINDA K. LANCASTER (S)	4-C15H-11
17	LARRY E. REED (S)	4-C15H-20
18	LEE ELTRINGHAM (S)	4-C15G-63
19	JOHN MESTER (S)	4-C15H-05
20	LARRY ALLEN HOOD (S)	4-C15H-03
21	JOHN MESTER (S)	4-C15H-02
22	LARRY D. PRATT & JOYCE E. PRATT (S)	4-C15H-01
23	HAROLD W. BEATTY & PATRICIA BEATTY (S)	4-C15H-24
24	TRACY L. FORESTER (S)	4-C15G-53
25	GERALD L. ARACICH (S)	4-C15D-43
26	GERALD L. ARACICH (S)	4-C15D-42
27	JAMES A. RAHR & GERALDINE A. RAHR (S)	4-C15C-36
28	MICHAEL E. HIGHFIELD & KAREN L. HIGHFIELD, TRUSTEES, JOINTLY & SEVERALLY, OF THE 2013 MICHAEL E. HIGHFIELD & KAREN L. HIGHFIELD FAMILY IRREVOCABLE TRUST AGREEMENT DATED FEB. 4TH, 2013 (S)	4-C15C-18
29	MICHAEL E. HIGHFIELD & KAREN L. HIGHFIELD, TRUSTEES, JOINTLY & SEVERALLY, OF THE 2013 MICHAEL E. HIGHFIELD & KAREN L. HIGHFIELD FAMILY IRREVOCABLE TRUST AGREEMENT DATED FEB. 4TH, 2013 (S)	4-C15C-17
30	ALBERT C. BARTON (S)	4-C15C-16.1
31	LARRY TOMSHACK (S)	4-C15C-10
32	CHARLES DAVID JOHNSON & SANDRA K. JOHNSON (S)	4-C15C-22
33	THOMAS G. MOORE & KATHY J MOORE (S)	4-C15C-04
34	GARY A. DENNIS & LORI ANN DENNIS (S)	4-C15C-05
35	GARY E. DENNIS & LORI ANN DENNIS (S)	4-C15C-06
36	RAMON L. BOWEN, TRUSTEE OF THE RAMON L. BOWEN IRREVOCABLE TRUST DATED FEBRUARY 3,2020 (S)	4-CC11-91
37	RAMON MARSHALL BOWEN (S)	4-C15C-02
38	DWIGHT & MARY DICKEY (S)	4-C11L-14

ADJOINING OWNERS TABLE

TRACT	SURFACE OWNER	TAX PARCEL
A	LINDY L. BLACK	4-CC20-07
B	COLLIER'S SPORTSMAN CLUB	4-CC20-21
C	WILLIAM MORGAN ROUSE & DORIS J. ROUSE	4-CC20-20
D	LINDY L. GALIANO & SANTY GALIANO	4-CC20-19.1
E	ERIC T. GALIANO	4-CC20-16
F	ERIC T. GALIANO	4-CC20-14
G	ERIC T. GALIANO	4-CC20-19
H	KEVIN MCCONNELL	4-CC20-11
I	BARBARA J. MCCONNELL	4-CC20-10
J	SUSAN KAY PRONCHIK	4-CC20-08

ADJOINING OWNERS TABLE

TRACT	SURFACE OWNER	TAX PARCEL
K	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC19-169
L	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	4-CC19-165
M	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	4-CC19-166
N	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	4-CC19-167.1
O	DOUGLAS P. EMMERTH & PAMELA L. EMMERTH	4-CC19-167
P	ERIC M. WILSON	4-CC19-155.2
Q	SANDRA DEMARK ZINK	4-CC19-145
R	MELANIE DIANE CHEEK	4-CC19-141
S	MELANIE DIANE CHEEK	4-CC19-142

REVISIONS:

▲ REVISED REFERENCES 06-05-2020

COMPANY:

SWN
Production Company, LLC

SWN ^{R⁺} ^{A⁺} ^{V⁺} [®]
Production Company™

OPERATOR'S STATE OF WV DNR C BRK

WELL #: 3H

DISTRICT:
CROSS CREEK

COUNTY:
BROOKE

API #:

047-009-00314

STATE:
WV

DATE: 05-05-2020

DRAWN BY: N. MANO

SCALE: N/A

DRAWING NO:
WELL LOCATION PLAT 3

**JACKSON SURVEYING
INC.**



2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851

ADJOINING OWNERS TABLE

TRACT	SURFACE OWNER	TAX PARCEL
T	PITTSBURGH & WV RAILWAY	4-CC19-134
U	LONNIE V. BLAKE, CARRIE R. BLAKE, SUSAN MAIN & SANDRA I. WYSATSKI	4-CC19-139
V	RONALD L. LAW	4-CC19-122
W	SETH R. PARR & CHRISTIAN D. PARR (LE - RAYMOND J. PARR & SARA E PARR)	4-CC19-119.3
X	OKEY TREDWAY JR. & CONSTANCE FAITH BEATTY BUCY	4-CC19-117
Y	JASON P. NUZUM	4-CC19-114
Z	CLARENCE I. JONES & DORIS JONES	4-CC19-112
A2	CLARENCE I. JONES & DORIS JONES	4-CC19-111
B2	GERALD E. GOURLEY	4-CC19-103
C2	GARY LEE LOAR & SANDRA L. LOAR	4-CC15-52
D2	RONALD A REED	p/o 4-C15L-45
E2	LARRY E. REED	4-C15L-45
F2	LARRY E. REED	4-C15G-33
G2	GEORGE C. STAATS & FRANCIS M. STAATS	4-C15G-40
H2	KERRY AARON LOOMAN	4-C15H-10
I2	BOBBY MILLER	4-C15G-47
J2	DAVID BRUCE LANCASTER & VIOLET L. LANCASTER	4-C15G-50.1
K2	GARY STRAKA & BETTY STRAKA	4-C15G-52
L2	JACQUELYN J. WILLIAMSON & JAMES E. MILLER	4-C11L-78
M2	DONALD J. BARTOLETTI	4-C15G-58
N2	RICHARD L. LANTZ	4-C15G-62
O2	RICHARD L. LANTZ	4-C15H-23
P2	DELBERT A. CAMPBELL & PAMELA A. CAMPBELL	4-C15H-22
Q2	DELBERT A. CAMPBELL & PAMELA A. CAMPBELL	4-C15H-04
R2	THOMAS J. SCHANTZ & DESIREE L. SCHANTZ	4-C15H-21
S2	ROBERT FORESTER & LORETTA FORESTER	4-C15G-55
T2	ROBERT S. FORESTER & LORETTA J. FORESTER	4-C15G-56
U2	CHAD W. SPARKS	4-C15G-57
V2	LONNIE C. WADE & CHRISTINE E. WADE	4-C15C-33
W2	ROBERT D. SKIBA	4-C15C-35
X2	REXALL G. LANCASTER JR.	4-C15C-34
Y2	KATHERINE B. BAXTER ESTATE, (LIFE EST.-GERALD W. BAXTER)	4-C15C-16
Z2	JAMES A. SABO & JUDY KOVARIK	4-C15C-15
A3	SHERIL WILLIAM LEMASTERS & BRENDA SUE LEMASTERS	4-C15C-11
B3	SHERIL WILLIAM LEMASTERS & BRENDA S. LEMASTERS	4-C15C-12
C3	VERNA FLUHARTY & SANDRA SUMMERS	4-C15C-19
D3	VERNA FLUHARTY & SANDRA SUMMERS	4-C15C-20
E3	VERNA FLUHARTY & SANDRA SUMMERS	4-C15C-21
F3	BONNIE LUCILLE ELTRINGHAM	4-C15C-30.1
G3	GERALD C. BRADY & CARLA L. BRADY	4-C15C-25
H3	GERALD C. BRADY & CARLA L. BRADY	4-C15C-24
I3	JOHN E. DOAK & LINDSAY A DOAK	4-C15C-26
J3	JOHN E. DOAK & LINDSAY A DOAK	4-C15C-27
K3	JOHN BENNETT & CONNIE BENNETT	4-C15C-28
L3	CHARLES D. JOHNSON & SANDRA K. JOHNSON	4-C15C-23
M3	FRED WELSHANS JR. & CHRIS E. WELSHANS	4-CC11-95
N3	RAYMOND MARSHALL BOWEN	4-C15C-01
O3	CHAD A. RICCELLI	4-C15C-22.1
P3	DONALD E. SIPPEL & DOREEN E. SIPPEL	4-CC11-94

ADJOINING OWNERS TABLE

TRACT	SURFACE OWNER	TAX PARCEL
Q3	JACK KAROL BOWEN	4-CC11-97
R3	DONALD E. SIPPEL & DOREEN E. SIPPEL	4-CC11-93
S3	DONALD G. CONAWAY	4-CC11-92
T3	OREN W. LITTLE	4-C11L-87
U3	MICHAEL D. LANCE	4-C11L-15
V3	BRIAN SIMMONS & CAITLIN E. SIMMONS	4-C11L-16
W3	BRIAN SIMMONS & CAITLIN E. SIMMONS	4-C11L-18
X3	MARK SECRIST JR. MARY SECRIST	4-C11M-01
Y3	ST. JOHN'S CEMETERY ASSOCIATION	4-C11L-13
Z3	ST. JOHN'S CEMETERY CO.	4-C11S-01
A4	RAMON L. BOWEN & YVONNE BOWEN	4-CC11-88
B4	RAMON L. BOWEN & YVONNE BOWEN	4-CC11-89
C4	RAMON L. BOWEN & YVONNE BOWEN	4-CC11-90
D4	JAMES E. HEIDENREICH & DEBRA R. ARTHUR	4-C15C-03
E4	STEVEN D. MORAN & BETHANY A. MORAN	4-C11S-20
F4	WILLIAM H. MORAN JR. & JOSIE L. MORAN	4-C11S-20.1
G4	KODY GREEN	4-C11S-21
H4	VALERIE A. WELLS, ET AL (LE- LAURA RIGGS)	4-C11S-22
I4	TROY A. LUCAS	4-C11S-23
J4	CLIFFORD LEE MILLER	4-C15D-10
K4	MICHAEL J. CLARK SR. & TYRA S. CLARK	4-C15D-50
L4	MICHAEL J. CLARK SR. & TYRA S. CLARK	4-C15D-09
M4	TYRA CLARK	4-C15D-05
N4	DESIRRAE W. WELLS, ET AL (LE-HOBERT & LAURA RIGGS)	4-C15D-06
O4	DESIRRAE W. WELLS, ET AL (LE-LAURA RIGGS)	4-C15D-04
P4	JOSHUA A. ROBERTS	4-C15D-34
Q4	DONNA DELONG	4-C15D-02
R4	JIM HEIDENREICH	4-C15D-03
S4	DONNA DELONG	4-C15D-01
T4	ALBERT C. BARTON	4-C15C-09
U4	ALBERT C. BARTON	4-C15C-08
V4	TIMOTHY A. STEPHEN & KACIE L. STEPHEN	4-C15D-47
W4	JAMES A. RAHR & GERALDINE A. RAHR	4-C15D-41
X4	VAL JEAN DELONG, TRUSTEE OF THE DELONG FAMILY KEYSTONE TRUST DATED DECEMBER 30, 2016	4-C15D-40
Y4	HAROLD WAYNE BEATTY JR. & NATALIE ROSE BEATTY	4-C15D-49
Z4	BRIAN KEITH BROWN & VERONICA JO BEATTY BROWN	4-C15H-18.1
A5	ROBERT L. DODSON III	4-C15H-17
B5	DALE W. GAYNOR JR.	4-C15H-16
C5	REVA AMANDA ALLMAN YOST	4-C15H-06
D5	CHARLIE I. DULANEY & ANGELA J. DULANEY	4-C15H-7
E5	CHARLIE I. DULANEY & ANGELA J. DULANEY	4-C15H-8
F5	FRANK PAESANO & CYNTHIA PASEANO	4-C15H-14
G5	ROSE VAN HEMERT	4-C15H-12
H5	LARRY E. REED	4-CC15-68.1
I5	RONALD A. REED	4-CC15-68.3
J5	LENORA J. RINEHART	4-CC15-74
K5	RUTH M. BLASKOVICH	4-CC15-69
L5	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC16-06
M5	DAVID DAMI	4-CC20-2.1
N5	DAVID C. DAMI	4-CC20-1.1
O5	FREDA M. DUNN - LIFE, SAUNDRA L. DUNN & ROBERT W. DUNN	4-CC20-1
P5	COLLIERS SPORTSMAN CLUB	4-CC20-24
Q5	STACI BREEN & PATRICIA BREEN	4-CC20-03
R5	SUSAN BREEN & KELLY HANNAOUI, TRUSTEES OF THE WILLIAM C. SAUNDERS 2019 IRREVOCABLE TRUST DATED NOVEMBER 21, 2019	4-CC20-23
S5	JOHN ERNEST MILLER & JESSE ANDREW MILLER	4-CC20-04
T5	SUSAN D. BREEN & DENNIS M. BREEN	4-CC20-22

REVISIONS: ▲ REVISED REFERENCES 06-05-2020	COMPANY: 	
	OPERATOR'S STATE OF WV DNR C BRK	API #: 047-009-00314
	WELL #: 3H	DATE: 05-05-2020
	DISTRICT: CROSS CREEK	COUNTY: BROOKE
		STATE: WV
		DRAWN BY: N. MANO
		SCALE: N/A
		DRAWING NO:
		WELL LOCATION PLAT 4