

Latitude: 40°20'00"

SURFACE HOLE 10527'

Latitude: 40°22'30" BOTTOM HOLE

3574'

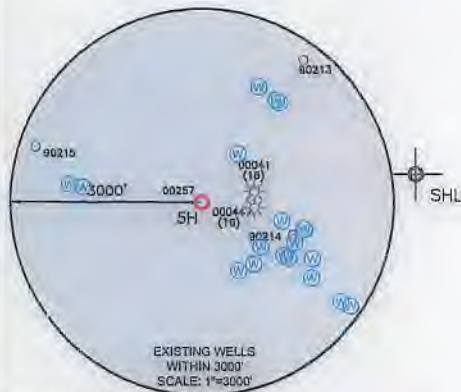
JACKSON SURVEYING INC.

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

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 67°38'24" W	1288.14'	SHL TO LANDMARK	2" IRON PIPE FOUND
L2	N 36°20'10" W	997.64'	SHL TO LANDMARK	STONE FOUND
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 80°04'19" E	1280.50'	2191.66'	SHL TO LP
L4	N 18°06'31" W	293.19'	293.31'	AZL1 TO AZL2
L5	N 18°59'35" W	381.40'	381.67'	AZL3 TO AZL4

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,420.366 EASTING: 539,282.414
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,461,487.657 EASTING: 539,666.865
AZIMUTH POINT LOCATION-1 (AZL1):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,463,190.495 EASTING: 539,011.708
AZIMUTH POINT LOCATION-2 (AZL2):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,463,275.434 EASTING: 538,983.932
AZIMUTH POINT LOCATION-3 (AZL3):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,463,930.652 EASTING: 538,806.227
AZIMUTH POINT LOCATION-4 (AZL4):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,464,040.575 EASTING: 538,768.392
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS): NORTHING: 4,466,258.042 EASTING: 537,835.699

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



WELL RESTRICTIONS

1. NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
2. NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
3. NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
4. NO PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 100 FEET OF THE LIMITS OF DISTURBANCE.
5. NO NATURALLY PRODUCING TROUT STREAM WITHIN 300 FEET OF LIMITS OF DISTURBANCE.
6. 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

1. 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.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
4. 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



3000 0 3000

GRAPHIC SCALE IN FEET

COMPANY:

SWN

SWN

Production Company, LLC

Production Company™



(+) 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)

STATE OF WV DNR C BRK

OPERATOR'S WELL #: 5H

API WELL #: 47 009 00326

STATE COUNTY PERMIT

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: NATURAL RESOURCES, PUBLIC LAND CORPORATION ACREAGE: ±83.858

OIL & GAS ROYALTY OWNER: 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) MODIFICATION

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 5,632 TVD 23,134 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITTANY WOODY



ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200

CITY: MORGANTOWN STATE: WV ZIP CODE: 26508 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508

LEGEND:	— SURVEYED BOUNDARY	REVISIONS:	DATE: 05-07-2020
○ PROPOSED SURFACE HOLE / BOTTOM HOLE	— DRILLING UNIT	△ REVISED REFERENCES 06-05-2020	
★ EXISTING / PRODUCING WELLHEAD	--- LEASE BOUNDARY		DRAWN BY: N. MANO
LPL ★ LANDING POINT LOCATION	— PROPOSED PATH		SCALE: 1" = 3000'
⊙ EXISTING WATER WELL	AZL ★ AZMUTH POINT LOCATION		DRAWING NO:
⊕ EXISTING SPRING			WELL LOCATION PLAT

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 INC.
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REVISIONS: ▲ REVISED REFERENCES 06-05-2020		COMPANY: <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  </div> <div style="text-align: center;">  </div> </div>	
OPERATOR'S STATE OF WV DNR C BRK WELL #: 5H		API #: 047-009-00324	DATE: 05-07-2020
DISTRICT: CROSS CREEK	COUNTY: BROOKE	STATE: WV	DRAWN BY: N. MANO SCALE: N/A DRAWING NO: WELL LOCATION PLAT 2

JACKSON SURVEYING
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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
	SURFACE OWNER (S)	
2	EDWARD L. CARTER & DEBORAH C. CARTER (S)	4-CC20-18
3	EDWARD L. CARTER & DEBORAH C. CARTER (S)	4-CC20-17
4	ERIC T. GALIANO (S)	4-CC20-16
5	ERIC T. GALIANO (S)	4-CC20-14
6	ERIC T. GALIANO (S)	4-CC20-15
7	LINDY L. GALIANO & SANTY GALIANO (S)	4-CC20-19.1
8	WILLIAM MORGAN ROUSE & DORIS J. ROUSE (S)	4-CC20-20
9	COLLIER'S SPORTSMAN CLUB (S)	4-CC20-21
10	SUSAN D. BREEN & DENNIS M. BREEN (S)	4-CC20-22
11	SUSAN D. BREEN & DENNIS BREEN (S)	4-CC20-23.1
12	SUSAN BREEN & KELLY HANNAOUI, TRUSTEES OF THE WILLIAM C. SAUNDERS 2019 IRREVOCABLE TRUST DATED NOVEMBER 21, 2019 (S)	4-CC20-23
13	COLLIER'S SPORTSMAN CLUB (S)	4-CC20-24
14	STACI BREEN & PATRICIA BREEN (S)	4-CC20-03
15	SUSAN BREEN & KELLY HANNAOUI, TRUSTEES OF THE WILLIAM C. SAUNDERS 2019 IRREVOCABLE TRUST DATED NOVEMBER 21, 2019 (S)	4-CC20-02
16	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION (S)	4-CC16-06
17	PETER D. BLASKOVICH & RUTH M. BLASKOVICH (S)	4-CC15-71
18	LENORA J. RINEHART (S)	4-CC15-74
19	RONALD A. REED (S)	4-CC15-68.3
20	LARRY E. REED (S)	4-CC15-68.1
21	ROSE VAN HEMERT (S)	4-C15H-12
22	GORDON KIGER (S)	4-C15H-13
23	FRANK PAESANO & CYNTHIA PASEANO (S)	4-C15H-14
24	MIKE E. BAILEY & MARY E. BLAKE (S)	4-C15H-15
25	DALE W. GAYNOR JR. (S)	4-C15H-16
26	VAL JEAN DELONG, TRUSTEE OF THE DELONG FAMILY KEYSTONE TRUST DATED DECEMBER 30, 2016 (S)	4-C15D-40
27	WILLIAM C. BLACK (S)	4-C15D-39
28	GLENN THOMPSON (S)	4-C15D-36
29	BURL DELEE WARRICK & JAMES KENNETH WARRICK (S)	4-C15D-35
30	JOSHUA A. ROBERTS (S)	4-C15D-34
31	DESIRRAE W. WELLS, ET AL (LE-LAURA RIGGS) (S)	4-C15D-04
32	DESIRRAE W. WELLS, ET AL (LE-HOBERT & LAURA RIGGS) (S)	4-C15D-06
33	MADLINE C. BROZSTEK (S)	4-C15D-07
34	MADLINE C. BROZSTEK (S)	4-C15D-8.1
35	CLIFFORD MILLER (S)	4-C15D-08
36	CLIFFORD LEE MILLER (S)	4-C15D-10
37	TROY A. LUCAS (S)	4-C11S-23
38	RAMON L. BOWEN, TRUSTEE OF THE RAMON L. BOWEN IRREVOCABLE TRUST DATED FEBRUARY 3, 2020 (S)	4-CC11-91
39	RAMON L. BOWEN & YVONNE BOWEN (S)	4-CC11-90
40	RAMON L. BOWEN & YVONNE BOWEN (S)	4-CC11-89
41	RAMON L. BOWEN & YVONNE BOWEN (S)	4-CC11-88



REVISIONS: △ REVISED REFERENCES 06-05-2020	COMPANY:  	
OPERATOR'S STATE OF WV DNR C BRK	API #: 047-009-00326	DATE: 05-07-2020
WELL #: 5H		DRAWN BY: N. MANO
DISTRICT: CROSS CREEK	COUNTY: BROOKE	SCALE: N/A
	STATE: WV	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 OWNERS	TAX PARCEL
A	JOHN ERNEST MILLER & JESSE ANDREW MILLER	4-CC20-04
B	GRETCHEN MOORE LANGEVIN, TRUSTEE & WESTBANCO BANK, INC.	4-CC20-05
C	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC19-168
D	JASON P. NUZUM	4-CC19-113
E	JASON P. NUZUM	4-CC15-70
F	GARY LEE LOAR & SANDRA L. LOAR	4-CC15-52
G	RUTH M. BLASKOVICH	4-CC15-69
H	PETER D. BLAKOVICH & HELEN S. BLASKOVICH	4-CC15-72
I	RYAN POWELL, & KELLY POWELL	4-CC15-73
J	FRANK REED LARKEY	4-CC15-68.2
K	LARRY REED	4-CC15-67
L	LARRY REED	4-C15H-09
M	BETTY S. LANCASTER & LINDA K. LANCASTER	4-C15H-11
N	LARRY E. REED	4-C15H-20
O	CHARLIE I. DULANEY & ANGELA J. DULANEY	4-C15H-08
P	CHARLIE I. DULANEY & ANGELA J. DULANEY	4-C15H-07
Q	REVA AMANDA ALLMAN YOST	4-C15H-06
R	LARRY ALLEN HOOD	4-C15H-03
S	JOHN MESTER	4-C15H-02
T	LARRY D. PRATT & JOYCE E. PRATT	4-C15H-01
U	ROBERT L. DODSON III	4-C15H-17
V	HAROLD WAYNE BEATTY JR. & NATALIE ROSE BEATTY	4-C15D-49
W	GERALD L. ARACICH	4-C15D-43
X	JAMES A. RAHR & GERALDINE A. RAHR	4-C15D-41
Y	DONNA DELONG	4-C15D-01
Z	DONNA DELONG	4-C15D-02
A2	JIM HEIDENREICH	4-C15D-03
B2	THOMAS G. MOORE & KATHY J MOORE	4-C15C-04
C2	GARY A. DENNIS & LORI ANN DENNIS	4-C15C-05
D2	GARY E. DENNIS & LORI ANN DENNIS	4-C15C-06
E2	TYRA CLARK	4-C15D-05

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNERS	TAX PARCEL
F2	MICHAEL J. CLARK SR. & TYRA S. CLARK	4-C15D-09
G2	MICHAEL J. CLARK SR. & TYRA S. CLARK	4-C15D-50
H2	JAMES E. HEIDENREICH & DEBRA R. ARTHUR	4-C15C-03
I2	RAMON MARSHALL BOWEN	4-C15C-02
J2	CHARLES DAVID JOHNSON & SANDRA K. JOHNSON	4-C15C-22
K2	CHAD A. RICCELLI	4-C15C-22.1
L2	RAYMOND MARSHALL BOWEN	4-C15C-01
M2	FRED WELSHANS JR. & CHRIS E. WELSHANS	4-CC11-95
N2	DONALD E. SIPPEL & DOREEN E. SIPPEL	4-CC11-94
O2	JACK KAROL BOWEN	4-CC11-97
P2	DONALD E. SIPPEL & DOREEN E. SIPPEL	4-CC11-93
Q2	DONALD G. CONAWAY	4-CC11-92
R2	DWIGHT & MARY DICKEY	4-C11L-14
S2	ST. JOHN'S CEMETERY CO.	4-C11S-01
T2	WILLIAM A. HERCULES & VICKY L. HERCULES	4-C11S-9.1
U2	WVMP LLC	4-C11S-10
V2	ROGER BENNETT & LAURA BENNETT	4-C11S-12
W2	ANDREA N. DOMICK	4-C11S-13
X2	GERALD GOURLEY (L/E: GLORIA F KIGER)	4-C11S-14
Y2	TRAVIS CORBIN	4-C11S-15
Z2	STEVEN D. MORAN & BETHANY A. MORAN	4-C11S-20
A3	WILLIAM H. MORAN JR. & JOSIE L. MORAN	4-C11S-20.1
B3	KODY GREEN	4-C11S-21
C3	VALERIE A. WELLS, ET AL (LE- LAURA RIGGS)	4-C11S-22
D3	CHRISTOPHER E. SMITH	4-C15D-20
E3	EMURI HOME AND GARDEN, LLC.(L/C: SHERRY TACKETT)	4-C15D-21
F3	TROY A. LUCAS	4-C15D-23
G3	CHARLES D. BEATTY JR.	4-C15D-26
H3	SHAFFER FAMILY IRREVOCABLE INCOME ONLY TRUST	4-C15D-27
I3	KEITH R. SHAFFER	p/o 4-C15D-27
J3	KEITH RICHARD SHAFFER & MARY JO SHAFFER	4-C15D-29
K3	DOUGLAS SWAIN	4-C15D-30.3
L3	WILLIAM THOMAS LAW & JANE LAW	4-C15D-33

REVISIONS:	COMPANY:		
△ REVISED REFERENCES 06-05-2020	 		
	OPERATOR'S STATE OF WV DNR C BRK	API #:	DATE: 05-07-2020
	WELL #: 5H	047-009-00326	DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	SCALE: N/A
		STATE: WV	DRAWING NO:
			WELL LOCATION PLAT 4

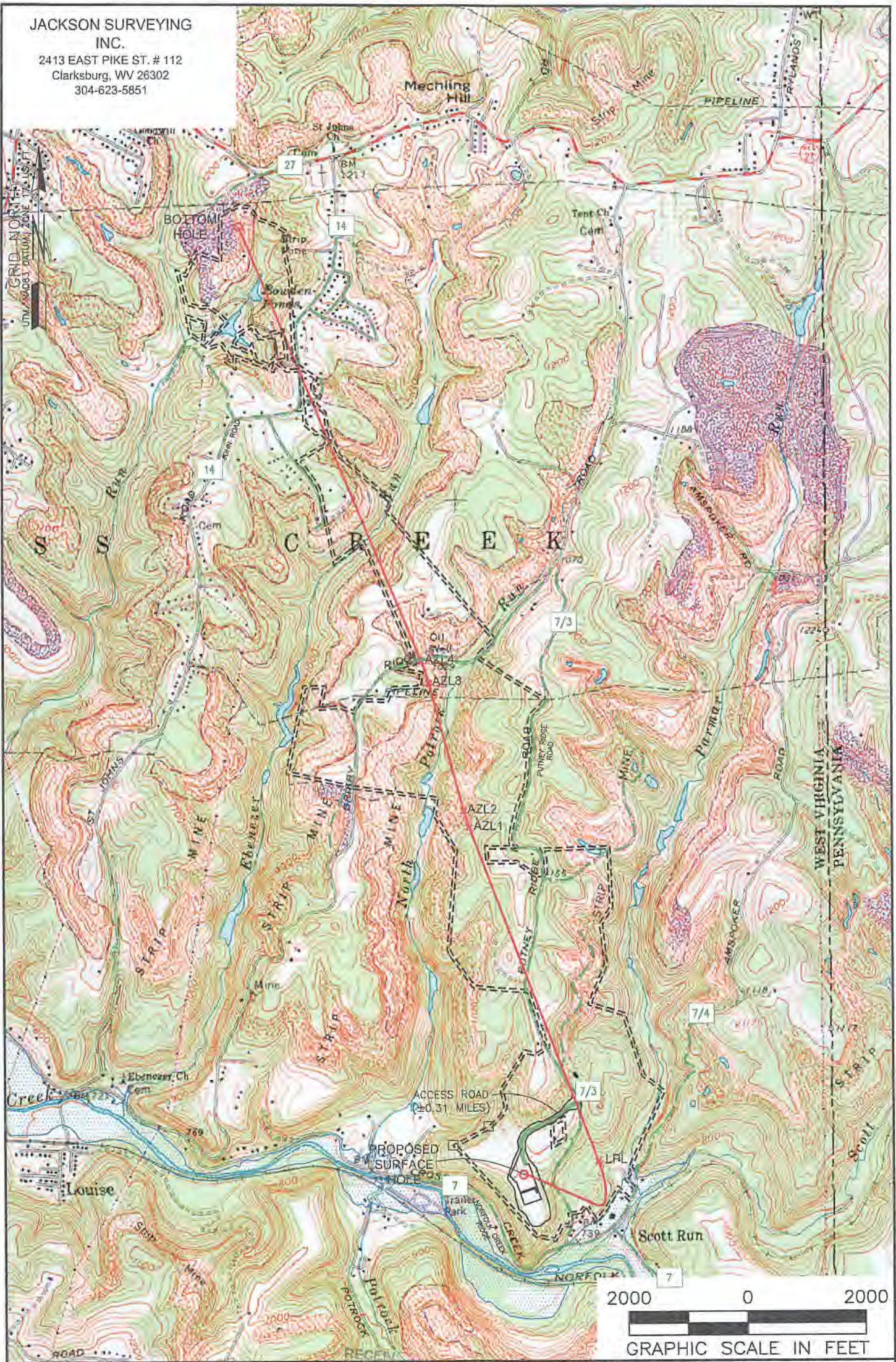
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 304-623-5851

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNERS	TAX PARCEL
M3	VAUGHN R. DAVIS & MARY L. DAVIS	4-C15D-32
N3	GLENN THOMPSON	4-C15D-37
O3	LAURA J. STEUDEBAKER & STUART STEUDEBAKER	4-C15D-30
P3	REED-GEHRLING FAMILY TRUST DATED 10/17/08	4-CC16-32
Q3	THE DENNIS PALFALVY III IRREVOCABLE TRUST	4-CC16-5
R3	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC16-8.1
S3	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC16-7.1
T3	DAVID C. DAMI	4-CC20-1.1
U3	DAVID C. DAMI	4-CC20-2.1
V3	FREDA M. DUNN - (LIFE) SAUNDRA L. DUNN & ROBERT W. DUNN	4-CC20-01
W3	COLLIERS SPORTSMAN CLUB	4-CC20-45
X3	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC20-25.1
Y3	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC20-25
Z3	DEBORAH K. SLIDAY	4-CC20-32
A4	NICKOLES 3, LLC.	4-CC20-33
B4	ROBERT CLINE & DELORIS CLINE	4-CC20-34
C4	WILLIAM MARINO & MILDRED T. MARINO	4-CC20-35
D4	MILDRED T. MARINO & WILLIAM MARINO	4-CC20-36
E4	WAYNE L. HENDERSON & BETHANY A. HENDERSON	4-CC20-37
F4	SANTY GALIANO & LINDY GALIANO	4-CC20-38
G4	ERIC T. GALIANO	4-CC20-13
H4	BARBARA A. SMITH	4-CC20-12
I4	ERIC T. GALIANO	4-CC20-19
J4	KEVIN MCCONNELL	4-CC20-11
K4	BARBARA J. MCCONNELL	4-CC20-10
L4	SUSAN K. PRONCHIK	4-CC20-08
M4	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC19-169
N4	STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	4-CC19-168
O4	LINDY L. BLACK	4-CC20-07

REVISIONS:	COMPANY:		
△ REVISED REFERENCES 06-05-2020			
	OPERATOR'S STATE OF WV DNR C BRK	API #:	DATE: 05-07-2020
	WELL #: 5H	047-009-06326	DRAWN BY: N. MANO
	DISTRICT: CROSS CREEK	COUNTY: BROOKE	SCALE: N/A
		STATE: WV	DRAWING NO:
			WELL LOCATION PLAT 5

**JACKSON SURVEYING
INC.**

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



NOTES ON SURVEY

1. 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.
2. THIS PLAT DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
3. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

Office of
DEP 14 2011
W. Department of
Environmental Protection

LEGEND:

- 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
- AZL* AZMUTH POINT LOCATION

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: STATE OF WV DNR C BRK	WELL # 5H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE BROOKE - 009	DISTRICT; CROSS CREEK	
SURFACE OWNER: STATE OF WEST VIRGINIA, BUREAU OF COMMERCE, DIVISION OF NATURAL RESOURCES, PUBLIC LAND CORPORATION	USGS 7 1/2 QUADRANGLE MAP NAME STUEBENVILLE EAST, WV	API #: 047-009-00257	

