

LATITUDE: 39°47'30"

SURFACE HOLE 7,523'



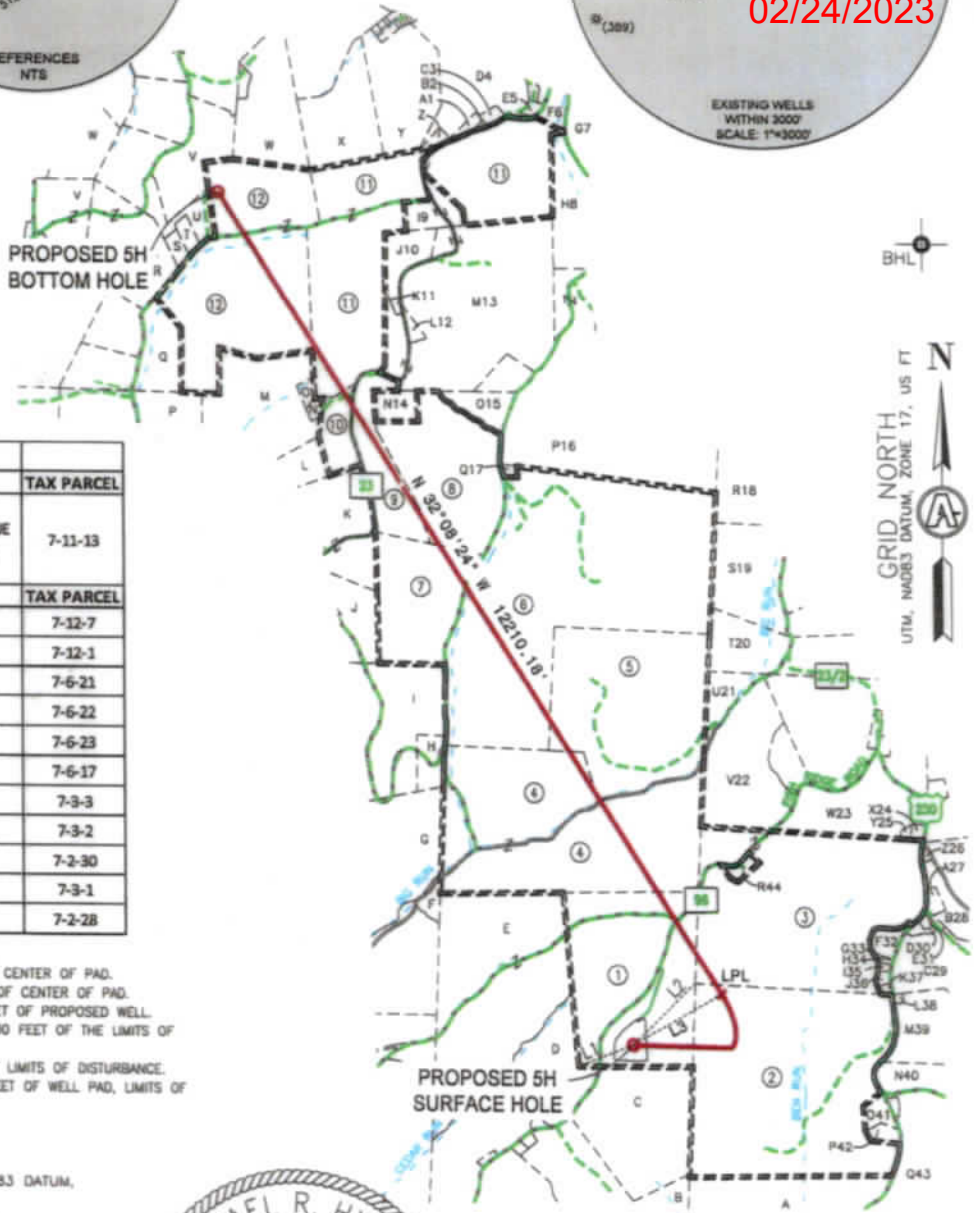
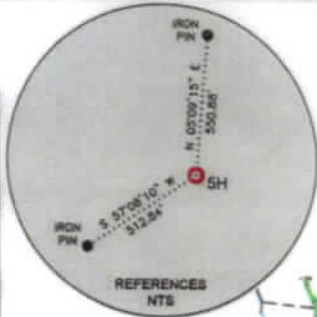
LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	S 68°15'38" W	794.29'	SHL TO MONUMENT	STONE MONUMENT
L2	N 45°15'14" E	1146.49'	SHL TO MONUMENT	STONE MONUMENT
L3	N 59°58'32" E	1,330.76'	SHL TO LPL	SHL TO LPL

LATITUDE: 39°50'00"

BOTTOM HOLE 1,109'

SURVEYOR/ENGINEER: 1-304-933-3483  
1700 ANMOORE RD,  
BRIDGEPORT, WV 26330

SURFACE HOLE LOCATION (SHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,404,245.087
	EASTING: 536,951.592
LANDING POINT (LPL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,404,448.045
	EASTING: 537,302.780
BOTTOM HOLE LOCATION (BHL):	
UTM (NAD83, ZONE 17, METERS):	NORTHING: 4,407,599.369
	EASTING: 535,322.886



WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	JOHN C. RICHARDS, et ux (S) / AMP IV, LP; CYNTHIA SUE DAVIS; FRANK D. ROBINSON; JENNIE ROBINSON (R)	7-11-13
2	O'NEIL GARRETT D & AMY L	7-12-7
3	REID JAMES L & SHERRY L	7-12-1
4	STEWART KIMBERLY A	7-6-21
5	O'NEIL DENNIS G ET UX	7-6-22
6	SCHWERTFEGER TODD J & JENNIFER ET AL	7-6-23
7	ROBIN E RICHARDSON F/K/A ROBIN E MURFIN	7-6-17
8	SCHOENE MICHAEL	7-3-3
9	STERN GARY ET UX	7-3-2
10	STERN GARY ET UX	7-2-30
11	STERN MICHAEL B & AMY L	7-3-1
12	STERN MICHAEL B & AMY L	7-2-28

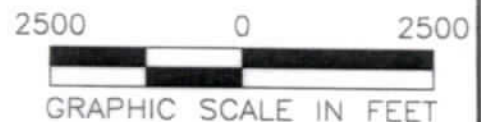
- WELL RESTRICTIONS**
- NO OCCUPIED DWELLINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
  - NO AGRICULTURE BUILDINGS > 2500 SQ FT. WITHIN 625 FEET OF CENTER OF PAD.
  - NO WATER WELLS OR DEVELOPED SPRINGS ARE WITHIN 250 FEET OF PROPOSED WELL.
  - PERENNIAL STREAMS, LAKES, PONDS, OR RESERVOIRS WITHIN 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**
- TIES TO WELLS AND CORNERS ARE BASED ON UTM, NAD83 DATUM, ZONE 17, US FT.
  - WELL LAT./LONG ESTABLISHED BY DIRECT GPS NAD '83.
  - BOUNDARIES SHOWN ARE TAKEN FROM TAX MAPS, DEEDS, AND FIELD SURVEY. THIS DRAWING IS NOT REPRESENTATIVE OF A FULL BOUNDARY SURVEY.
  - SURFACE OWNER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF OHIO COUNTY IN OCTOBER OF 2021.
  - WELLS SHOWN ARE TAKEN FROM RECORDS OF WVDEP.

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 THEREIN.

P.S. 983

*Michael R. Hyman*



COMPANY: **SWN** Production Company, LLC

STATE OF WEST VIRGINIA  
WVDEP  
OFFICE OF OIL & GAS  
601 57TH STREET  
CHARLESTON, WV 25034

MINIMUM DEGREE OF ACCURACY: 1/200  
PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)

COMPANY: **SONIA R MSH**  
OPERATOR'S WELL #: 5H  
API WELL #: 47 STATE 51 COUNTY 02466 PERMIT

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

WATERSHED: UPPER OHIO-WHEELING ELEVATION: 1531.0'

DISTRICT: LIBERTY COUNTY: MARSHALL QUADRANGLE: CAMERON 7.5', WV

SURFACE OWNER: JOHN C. RICHARDS, et ux ACREAGE: ±83.00

OIL & GAS ROYALTY OWNER: AMP IV, LP; CYNTHIA SUE DAVIS; FRANK D. ROBINSON; JENNIE ROBINSON ACREAGE: ±83.00

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

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

TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 7,437 TVD 20,226 TMD

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC DESIGNATED AGENT: BRITANY 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:	
	PROPOSED SURFACE HOLE / BOTTOM HOLE		SURVEYED BOUNDARY
	EXISTING / PRODUCING WELLHEAD		DRILLING UNIT
	EXISTING WATER WELL		LEASE BOUNDARY
	EXISTING SPRING		PROPOSED PATH
			DATE: 12/05/2020
			FILE NO:
			DRAWN BY: TMF
			SCALE: 1" = 2500'
			DRAWING NO: ACE-2257
			WELL LOCATION PLAT



SURVEYOR/ENGINEER: 1-304-933-3463  
 1700 ANMOORE RD,  
 BRIDGEPORT, WV 26330

02/24/2023

ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
A	KIRKENDALL SAMUEL D & CHRISTINE	7-12-8
B	MCCOMBS DOUGLAS R & REBECCA J	7-11-19
C	MACKAY ROY A ET AL	7-11-14
D	BAKER MARK ALLEN	7-11-15.2
E	MCCURDY TIMOTHY S	7-11-12
F	CUMPSTON KEITH D & SANDRA S	7-6-20
G	REID BARBARA J & SANDRA CUMPSTON	7-6-19
H	MARSHALL COUNTY COAL COMPANY	7-06-18.1
I	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-18
J	DOBBS ERIC SCOTT	7-6-16
K	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-2-32
L	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-2-31
M	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-29
N	MARSHALL COUNTY COAL RESOURCES INC	7-2-29.1
O	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-29.2
P	CONSOLIDATION COAL COMPANY MURRAY ENERGY C/O LAND DEPT	7-2-22
Q	STERN MICHAEL B & AMY L	7-2-25
R	BRYAN MICHAEL R II & MELISSA A	7-2-26
S	STERN MICHAEL B & AMY L	7-2-27.3
T	STERN MICHAEL B & AMY L	7-2-27.4
U	BONGIORNO DAVID CURTIS	7-2-27
V	CNX LAND LLC	7-2-27.2
W	FRYE MARK H	3-18-27
X	STERN MICHAEL B & AMY L	3-17-20
Y	SCOTT GABRIEL O & BETHANY D	3-17-20.1
Z	CHAMBERS FRANCIS ET AL	3-17-21
A1	DOTY RICK A & CATHY	3-17-22
B2	DOTY RICK A & CATHY	3-17-22.1
C3	MARSHALL COUNTY COAL RESOURCES INC	3-17-23
D4	CLARK CHRISTOPHER SCOTT	3-17-24
E5	CLARK CHRISTOPHER SCOTT	3-17-25
F6	DOBBS DON BURDELL ET UX	3-17-32
G7	DUFFORD WILLIAM E ET UX	3-17-33
H8	DOBBS DONALD B ET UX	7-3-7
I9	CHAPLIN MANDI K & KEVIN	7-3-1.2
J10	CLARK LARRY L & WENDY S	7-3-6.1
K11	ROUPE SHARON D	7-3-1.1
L12	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-3-6.2
M13	CLARK LARRY L & WENDY S	7-3-6
N14	SCHOENE MICHAEL	7-3-3.1

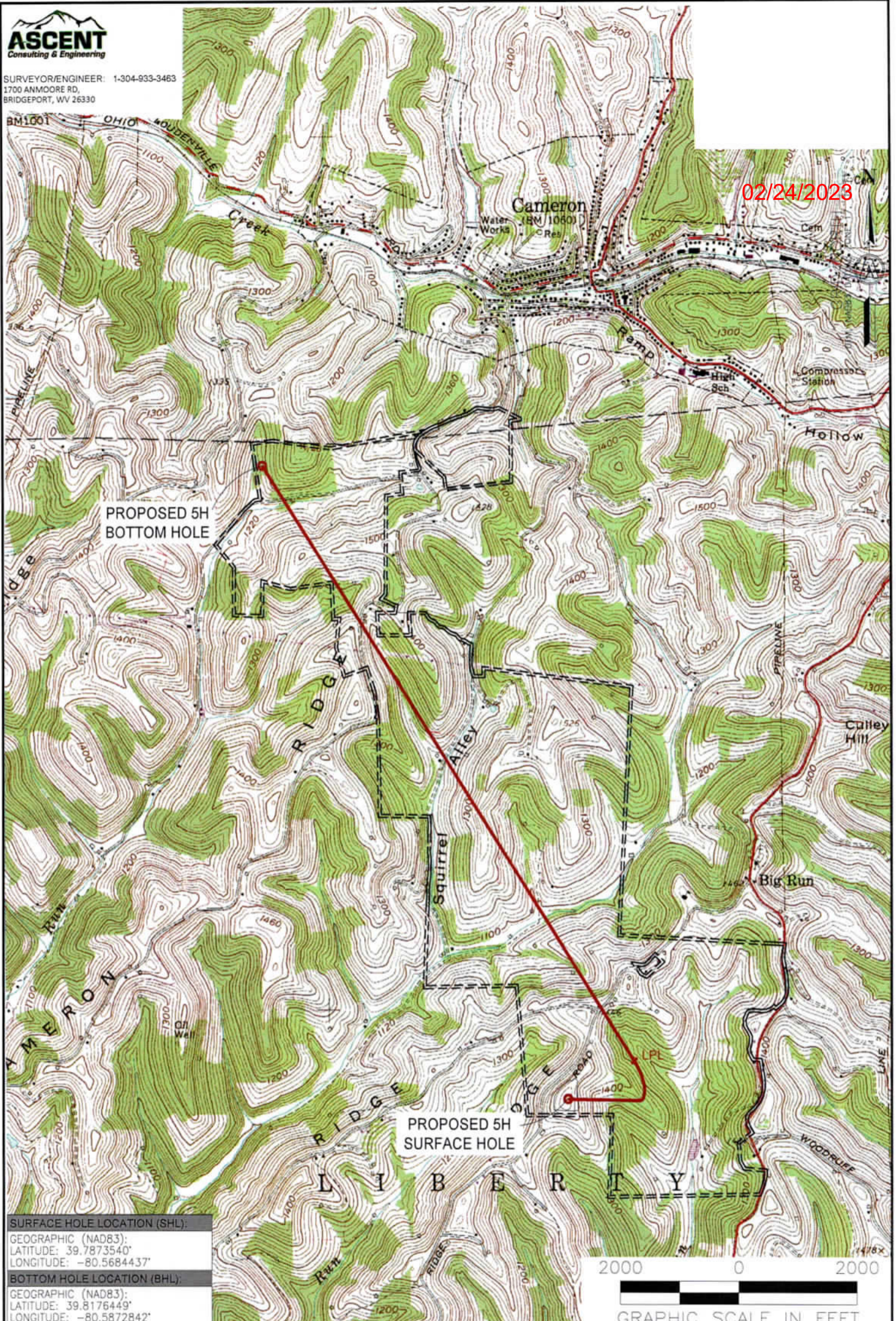
ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL
O15	EAKIN RICHARD T & KIMBERLY A STEWART	7-3-4
P16	SHEPHERD WILLIAM H & JERRY L - TOD	7-3-11
Q17	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-23.1
R18	NEELY ROBERT S ET UX	7-3-12
S19	CONSOL MINING COMPANY LLC ATTN: LAND ADMIN/PROPERTY TAX	7-6-24
T20	PETTIT JEFFERY M	7-6-25
U21	O'NEIL DENNIS G ET UX	7-6-26
V22	MATHEWS D A ESTATE	7-6-27
W23	BIG RUN CHRISTIAN CHURCH TR	7-5-6
X24	PETTIT THOMAS R ET UX	7-5-6.1
Y25	PETTIT THOMAS R & LILA	7-5-6.3
Z26	CHAMBERS JOHN W	7-12-3
A27	MIDCAP LESLIE J & VIRGINIA M	7-12-2.1
B28	CHAMBERS LAWRENCE D & JOHN W	7-12-2
C29	MIDCAP LESLIE ET UX	7-12-4
D30	ROHM GREG R	7-12-4.3
E31	ROHM GREG R	7-12-4.1
F32	FOX MARGARET O - TOD	7-12-1.4
G33	DARMAFALL JOSEPH W III & CHELSIE J	7-12-1.6
H34	DARMAFALL JOSEPH W III & CHELSIE J	7-12-1.5
I35	DARMAFALL JOSEPH W III & CHELSIE J	7-12-1.3
J36	LOGSDON TERRY & DONNA	7-12-1.1
K37	YEATER JARED P & TERESA	7-12-6
L38	CUMPSTON SANDRA & KEITH IRREVOCABLE TRUST	7-12-1.1
M39	CUMPSTON SANDRA & KEITH IRREVOCABLE TRUST	7-12-5
N40	EARNEST LLOYD & DONNA FAMILY TRUST	7-12-10.2
O41	TEDROW ROBERT A & ROSE M	7-12-7.1
P42	SCHERRICK KEITH A ET UX	7-12-7.2
Q43	EARNEST LLOYD & DONNA FAMILY TRUST	7-12-10
R44	REID JAMES LAWRENCE ET UX	7-12-1.2

REVISIONS:	COMPANY:		
	OPERATOR'S:	SONIA R MSH	
	WELL #:	47-051-02466 5H	
	DISTRICT:	COUNTY:	STATE:
	LIBERTY	MARSHALL	WV
			DATE: 12/05/2020
			DRAWN BY: TMF
			SCALE: N/A
			DRAWING NO: ACE-2257
			WELL LOCATION PLAT



SURVEYOR/ENGINEER: 1-304-933-3463  
1700 ANMOORE RD,  
BRIDGEPORT, WV 26330

02/24/2023



**SURFACE HOLE LOCATION (SHL):**  
GEOGRAPHIC (NAD83):  
LATITUDE: 39.7873540°  
LONGITUDE: -80.5684437°

**BOTTOM HOLE LOCATION (BHL):**  
GEOGRAPHIC (NAD83):  
LATITUDE: 39.8176449°  
LONGITUDE: -80.5872842°

**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.

**LEGEND:**

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ☼ EXISTING / PRODUCING WELLHEAD
- ACCESS ROAD
- - - PUBLIC ROAD
- ACCESS ROAD TO PREV. SITE
- - - LEASE BOUNDARY
- PROPOSED PATH
- FLOOD PLAIN

**WELL OPERATOR:**  
SWN PRODUCTION COMPANY, LLC

**ADDRESS:**  
1300 FORT PIERPONT DRIVE, SUITE 201

**SURFACE OWNER:**  
JOHN C. RICHARDS, et ux

<b>WELL (FARM) NAME:</b> SONIA R MSH	<b>WELL #</b> 5H	<b>SERIAL #</b> XXXX
<b>COUNTY - CODE</b> MARSHALL - 25	<b>DISTRICT; LIBERTY</b>	
<b>USGS 7 1/2 QUADRANGLE MAP NAME</b> WHEELING, WV		