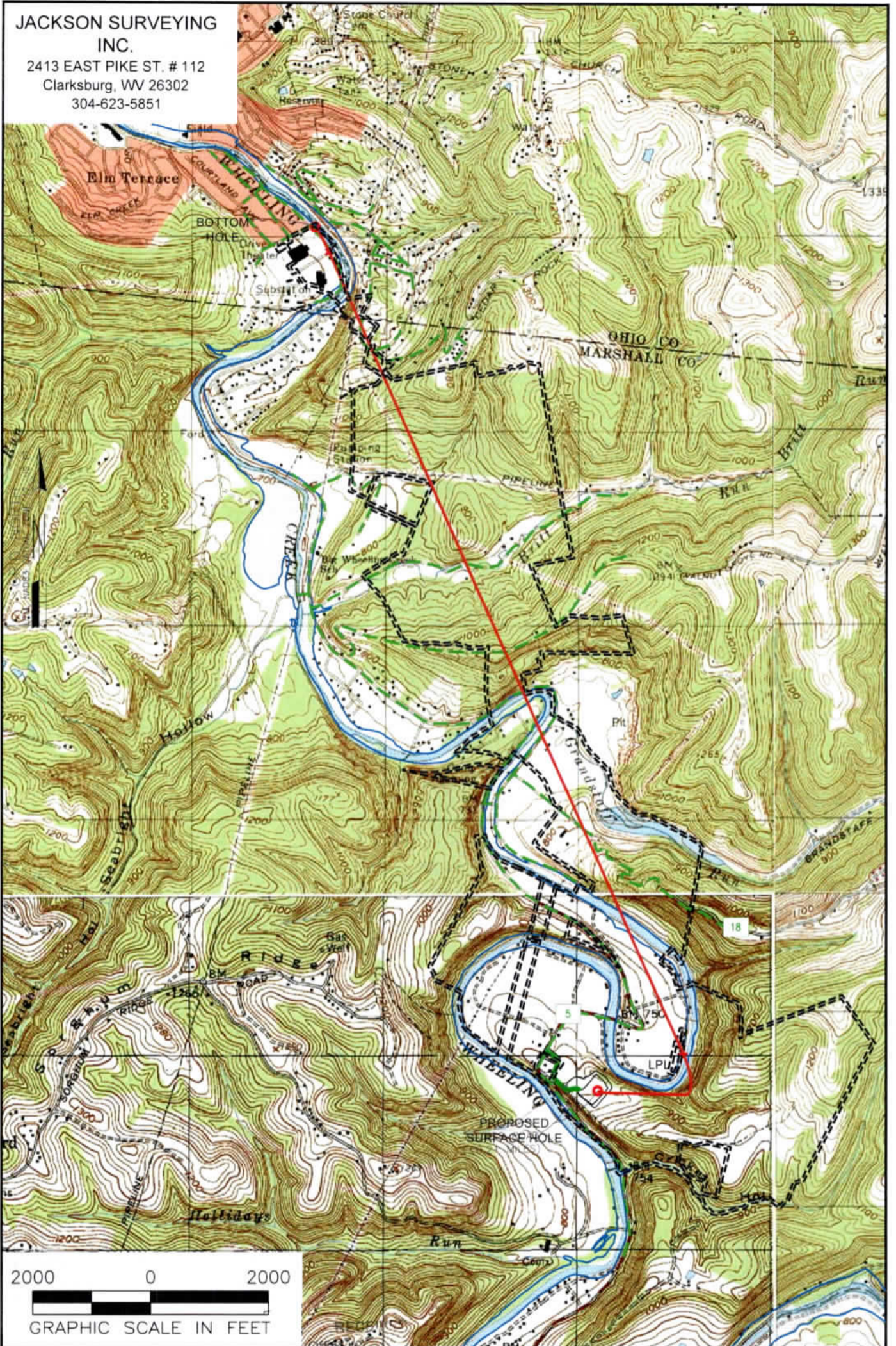


**JACKSON SURVEYING
INC.**
2413 EAST PIKE ST. # 112
Clarksburg, WV 26302
304-623-5851



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.
4. ALL INSETS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

SEP 18
WV Department of
Environmental Protection

LEGEND:

- PROPOSED SURFACE HOLE / BOTTOM HOLE
- ⊙ EXISTING / PRODUCING WELLHEAD
- ✱ LANDING POINT LOCATION
- FLOOD PLAN
- ACCESS ROAD
- LEASE BOUNDARY
- LEASE BOUNDARY
- PROPOSED PATH

10/13/2023

WELL OPERATOR: SWN PRODUCTION COMPANY, LLC	WELL (FARM) NAME: BETTY SCHAFER MSH	WELL # 205H	SERIAL #
ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 MORGANTOWN, WV 26508	COUNTY - CODE MARSHALL - 051	DISTRICT; SAND HILL	
SURFACE OWNER: ROY A. SCHAFER JR. & EDWARD J. SCHAFER	USGS 7 1/2 QUADRANGLE MAP NAME MOUNDSVILLE, WV	API # 47-051-	

Latitude: 40°00'00" SURFACE HOLE 2951'

**JACKSON SURVEYING
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2413 EAST PIKE ST. # 112
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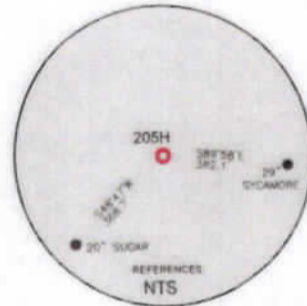
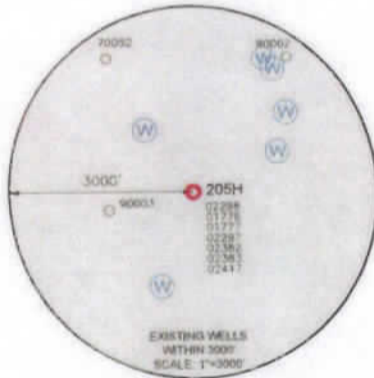
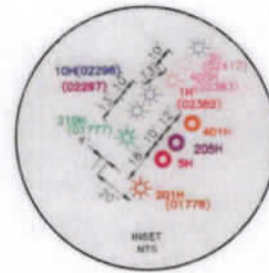
Latitude: 40°02'30"

BOTTOM HOLE 7,701'

GRID NORTH
UTM, NAD83, ZONE 17, US FT

SURFACE HOLE LOCATION (SHL):
UTM (NAD83, ZONE 17, METERS) NORTHING: 4,426,812.799 EASTING: 531,114.918
LANDING POINT LOCATION (LPL):
UTM (NAD83, ZONE 17, METERS) NORTHING: 4,427,000.595 EASTING: 531,557.840
BOTTOM HOLE LOCATION (BHL):
UTM (NAD83, ZONE 17, METERS) NORTHING: 4,431,252.351 EASTING: 529,649.002

LINE	BEARING	DISTANCE	DESCRIPTION	MONUMENT
L1	N 74°14'17" W	821.56'	SHL TO LANDMARK	FD 5/8" REBAR
L2	S 56°03'42" E	1690.85'	SHL TO LANDMARK	FD 5/8" REBAR
LINE	BEARING	DISTANCE	CURVE LENGTH	DESCRIPTION
L3	N 67°01'24" E	1578.38'	2241.38'	SHL TO LPL
L4	N 28°50'40" W	482.35'	482.94'	AZEL TO BHL



WELL RESTRICTIONS

- NO OCCUPIED DWELLINGS > 2500 SQ FT WITHIN 625 FEET OF CENTER OF WELL
- NO AGRICULTURE BUILDINGS > 2500 SQ FT WITHIN 625 FEET OF CENTER OF WELL
- 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 500 FEET OF LIMITS OF DISTURBANCE
- NO GROUND INTAKE OR PUBLIC WATER SUPPLY WITHIN 1000 FEET OF WELL PAD, LIMITS OF DISTURBANCE, T & 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 PLAN DOES NOT REPRESENT A BOUNDARY SURVEY OF THE PARCELS SHOWN HEREON.
- ALL METERS ARE GRID NORTH UNLESS OTHERWISE DEPICTED.

I, THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAN 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. 706

David L. Jackson

COMPANY: **SWN** Production Company LLC **SWN** 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>	<p>MINIMUM DEGREE OF ACCURACY: 1/200</p> <p>PROVEN SOURCE OF ELEVATION: SURVEY GRADE GPS (NAVD 88, US FT)</p>	<p>COMPANY: BETTY SCHAFER MSH</p> <p>OPERATOR'S WELL #: 205H</p> <p>API WELL #: 47 STATE 051 COUNTY D2507 PERMIT</p>									
	<p>WELL TYPE: OIL WASTE DISPOSAL PRODUCTION <input checked="" type="checkbox"/> DEEP GAS <input checked="" type="checkbox"/> LIQUID INJECTION STORAGE SHALLOW <input checked="" type="checkbox"/></p> <p>WATERSHED: WHEELING CREEK (HUC-10) ELEVATION: 848.4'</p> <p>DISTRICT: SAND HILL COUNTY: MARSHALL QUADRANGLE: MOUNDSVILLE, WV</p> <p>SURFACE OWNER: ROY A. SCHAFFER JR. & EDWARD J. SCHAFFER ACREAGE: ±205.06</p> <p>OIL & GAS ROYALTY OWNER: ROY A. SCHAFFER JR. & EDWARD J. SCHAFFER ACREAGE: ±205.06</p> <p>DRILL <input checked="" type="checkbox"/> DRILL DEEPER REDRILL FRACTURE OR STIMULATE <input checked="" type="checkbox"/> PLUG OFF OLD FORMATION PERFORATE NEW FORMATION</p> <p>CONVERT PLUG & ABANDON CLEAN OUT & REPLUG OTHER CHANGE (SPECIFY)</p> <p>TARGET FORMATION: MARCELLUS ESTIMATED DEPTH: 10/13/2023 TMD</p>	<p>WELL OPERATOR: SWN PRODUCTION COMPANY, LLC ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508</p> <p>DESIGNATED AGENT: BRITTANY WOODY ADDRESS: 1300 FORT PIERPONT ROAD, SUITE 200 CITY: MORGANTOWN STATE: WV ZIP CODE: 26508</p>									
<p>LEGEND:</p> <ul style="list-style-type: none"> ○ PROPOSED SURFACE HOLE / BOTTOM HOLE ☆ EXISTING / PRODUCING WELLHEAD LPL★ LANDING POINT LOCATION ⊙ EXISTING WATER WELL ⊕ EXISTING SPRING --- SURVEYED BOUNDARY --- CURVING UNIT === LEASE BOUNDARY --- PROPOSED PATH 	<p>REVISIONS:</p> <table border="1"> <tr> <td> </td> <td>DATE: 07-18-2023</td> </tr> <tr> <td> </td> <td>DRAWN BY: N. MANO</td> </tr> <tr> <td> </td> <td>SCALE: 1" = 2000'</td> </tr> <tr> <td> </td> <td>DRAWING NO:</td> </tr> <tr> <td> </td> <td>WELL LOCATION PLAT</td> </tr> </table>		DATE: 07-18-2023		DRAWN BY: N. MANO		SCALE: 1" = 2000'		DRAWING NO:		WELL LOCATION PLAT
	DATE: 07-18-2023										
	DRAWN BY: N. MANO										
	SCALE: 1" = 2000'										
	DRAWING NO:										
	WELL LOCATION PLAT										

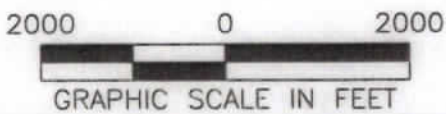
JACKSON SURVEYING
 INC.
 2413 EAST PIKE ST. # 112
 Clarksburg, WV 26302
 304-623-5851

4705102507



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*

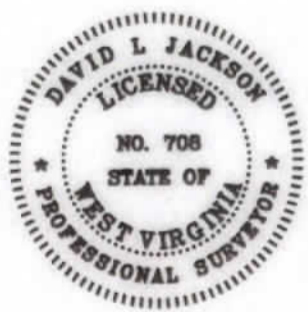
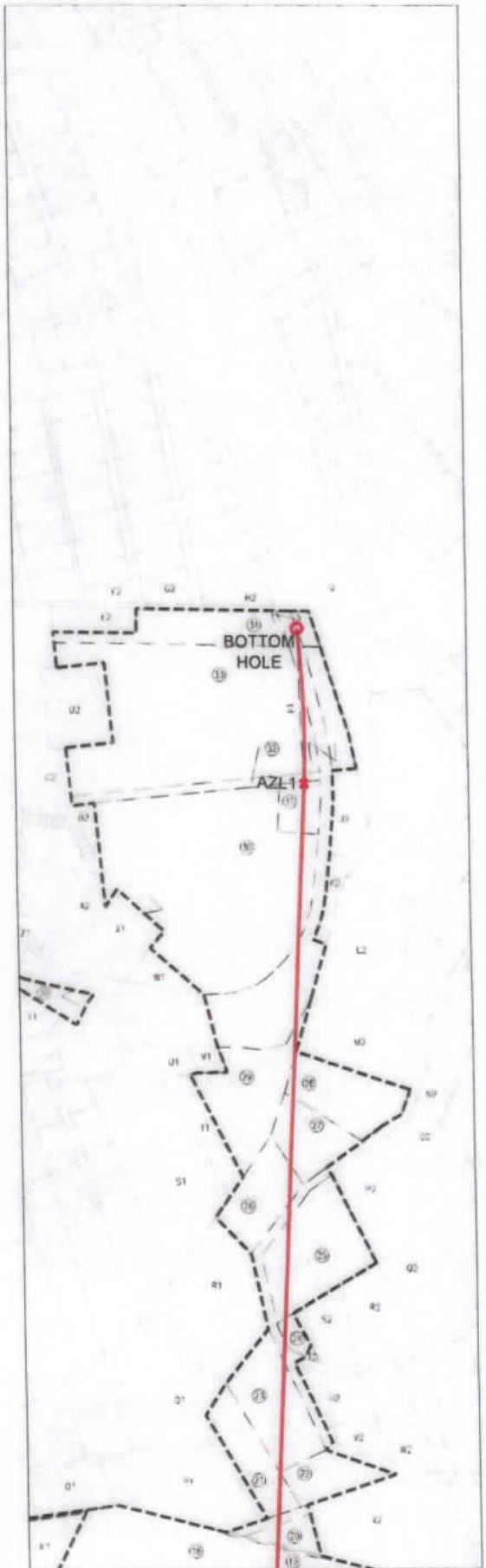


REVISIONS:	COMPANY:			DATE: 07-18-2023
		OPERATOR'S	BETTY SCHAFER MSH	API #
		WELL #:	205H	47-051-
		DISTRICT:	SAND HILL	COUNTY:
			MARSHALL	STATE:
				WV
				DRAWN BY: N. MAND
				SCALE: 1" = 2000'
				DRAWING NO:
				WELL LOCATION PLAT 2

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

4705102507

DETAIL "A"



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*

10/13/2023


REVISIONS:	COMPANY: SWN Production Company LLC			SWN Production Company™
	OPERATOR'S	BETTY SCHAFER MSH	API #	DATE: 07-18-2023
	WELL #:	205H	47-051-	DRAWN BY: N. MANO
	DISTRICT:	SAND HILL	COUNTY:	SCALE: N/A
			STATE:	DRAWING NO:
			WV	WELL LOCATION PLAT 3

**JACKSON SURVEYING
INC.**

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

4705102507

WELL BORE TRACTS		
TRACT	SURFACE OWNER (S) / ROYALTY OWNER (R)	TAX PARCEL
1	SCHAFER ROY A JR & EDWARD J (S/R)	12-9-22
TRACT	SURFACE OWNER (S)	TAX PARCEL
2	FISHER CHARLES B & CARLA S (S)	12-9-20
3	GRAY JOHN ALVIN (S)	12-9-21
4	GRAY JOHN ALVIN (S)	13-3-14
5	STEADMAN STELLA M - TOD (S)	12-9-5.1
6	SMITH BEVERLY JILL ANITA (S)	12-9-5.5
7	MANNERS DANIEL J ET UX (S)	12-9-5
8	DYE ALBERT M - LIFE (S)	12-9-6
9	WHEELING CREEK WATERSHED COMM (S)	12-9-6.1
10	HADSELL SANDRA L (S)	12-1-20
11	MERINAR JUSTIN K (S)	12-1-21
12	MAAS BRIAN J & AMY C - TRUST (S)	13-3-10
13	ADASE GEORGE & LAURIE (S)	12-1-29
14	KUNTZ JOHN H (S)	12-1-31
15	MERCER DARICK B & RENEE A (S)	12-1-32
16	CONSOLIDATION COAL COMPANY; MURRAY ENERGY C/O LAND DEPT (S)	12-1-10.2
17	COFFIELD MICHAEL L & TYLENE R (S)	12-1-10
18	HAMILTON MARY SCHENK & GARY P (S)	12-1-5.1
19	ENGINEERED FOUNDATION SOLUTIONS, PLLS (S)	12-1A-94
20	FRANK WILLIAM EMMETT ET UX (S)	12-1A-19.1
21	ROMAGNOLI JUDY E (S)	12-1A-21
22	THOMPSON MARIAN ANITA - TOD (S)	12-1A-20.1
23	DORAN LOUIS WILLIAM ET UX (S)	12-1A-20
24	LUCAS DONNA J - TOD (S)	12-1A-8.1
25	WRIGHT WARREN W & CHERYL D (S)	12-1A-6
26	WOLF CHARLES E ET UX (S)	12-1A-3
27	WOLFE CHARLES E & JUDITH LEE WOLFE EST (S)	6-T17B-21
28	MARCELLUS DARCY L & C J (S)	6-T17B-20
29	FLATLEY R KEVIN (S)	16-1-38
30	BOARD OF EDUCATION (S)	10-W96-40.2
31	ROBRECHT RICHARD M & SUSAN L (S)	10-W96-43
32	CARDINAL HEALTH 110 LLC (S)	10-W96-39.5
33	CARDINAL HEALTH 110 LLC (S)	10-W96-39
34	CARDINAL HEALTH 110 LLC (S)	10-W96-39.4

REVISIONS:	COMPANY:				10/13/2023					
	OPERATOR'S	BETTY SCHAFER MSH	API #	47-051-	DATE: 07-18-2023					
	WELL #:	205H	DISTRICT:	SAND HILL	COUNTY:	MARSHALL	STATE:	WV	DRAWN BY:	N. MANO
					SCALE:	N/A	DRAWING NO:	WELL LOCATION PLAT 4		



**JACKSON SURVEYING
INC.**

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

4705102507

ADJOINING OWNERS TABLE			ADJOINING OWNERS TABLE		
TRACT	SURFACE OWNER	TAX PARCEL	TRACT	SURFACE OWNER	TAX PARCEL
A	SCHAFFER ROY A JR & SCHAFFER EDWARD J	12-9-23	C2	CARDINAL HEALTH 110 LLC	10-W96-39.1
B	SCHAFFER ROY A JR & SCHAFFER EDWARD J	12-9-22.1	D2	CARDINAL HEALTH 110 LLC	10-W96-39.6
C	OHIO COUNTY COAL RESOURCES INC	12-9-22.2	E2	DANAHEY MARY MARGARET (LE) DANAHEY U L; LEECH D	10-W96-39.3
D	FISH PATRICIA A & FREDERICK W	12-10-1.2	F2	HETZEL LYNN E	10-W96-36
E	ROMAN EUGENE H	12-10-1	G2	VOSVICK MILAN	10-W96-37
F	HOGG THOMAS G & DONN W ET AL	13-8-3	H2	ARMBRUSTER JOHN D	10-W96-38.1
G	SCHAFFER ROY A JR & EDWARD J	12-9-24	I2	OHIO COUNTY PUBLIC SERV DIST	06-T178-1.1
H	HART JOHN J & RENEE A	13-8-2.1	J2	SILO INC C/O ROBINSON RICHARD	06-T178-324
I	HART JOHN J & RENEE A	13-3-11	K2	LANGMYER LEXIE	06-T178-7
J	LANGMYER SCOTT R & MELANEY F	12-9-3	L2	MAXWELL SHIRLEY L	06-T178-17
K	LANGMYER RAYMOND J	12-9-4	M2	MAXWELL SHIRLEY L & C L JR	06-T178-18
L	GRAY JOHN ALVIN	13-3-13	N2	KOVAL MATTHEW F KOVAL SUSAN R	06-T178-48.2
M	LANGMYER RAYMOND J	12-9-3.1	O2	BATES ROBERT A & KAREN A	06-T178-69.1
N	MANNERS-THIELE NADENE R & CHARLES L THIELE	12-9-5.4	P2	BATES ROBERT A & KAREN A	06-T178-69
O	TEACOACH JAY M ET UX	12-9-5.3	Q2	HOLPP SHIRLEY J	12-1A-7
P	DYE WILLIAM R	12-9-1	R2	WATSON JAMES W & MARGARET L IRREVOCABLE TRUST	12-1A-8.2
Q	THIELE CHARLES L & NADENE R MANNERS-THIELE	12-9-2.3	S2	CLOUGH GARY T & CHRISTINE M	12-1A-8
R	STRONG GREGORY S & LOUISE M	12-9-2	T2	CLOUGH GARY T & CHRISTINE M	12-1A-8.3
S	MAAS BRIAN J & AMY C - TRUST	13-3-9	U2	WESTFALL LAIRL W ET UX	12-1A-9
T	MAAS BRIAN J & AMY C - TRUST	13-3-10	V2	HISSAM BETTY ROSE	12-1A-9.1
U	MAAS BRIAN J & AMY C - TRUST	13-3-8	W2	KOCH JULIE	12-1A-10.1
V	MALARSKI PETE E ET UX	12-18-35	X2	WARNICK RONALD & ESTHER	12-1A-19
W	MALARSKI PETE E ET UX	12-18-36	Y2	BLUST HAROLD F	12-1A-18.2
X	STEGMAN CATHERINE A - TOD	12-18-37	Z2	BLUST HAROLD F	12-1A-87
Y	STEGMAN CATHERINE A - TOD	12-18-37.1	A3	SNYDER JOHN J ET UX	12-1A-85
Z	STEGMAN CATHERINE A - TOD	12-18-38	B3	SNYDER JOHN J ET UX	12-1A-84
A1	WHARTON PETER R ET AL	12-1-34	C3	ZDONCZYK ROBIN G	12-1A-83.1
B1	ESTEP DOUGLAS J & LINDA R - TOD	12-1-33.1	D3	SNYDER LONNIE A	12-1A-83
C1	SLIGAR JOHN WALTER	12-1-39	E3	HARTMAN WALTER L ET UX	12-1-10.1
D1	ROMAN EUGENE H	12-1-40.1	F3	COFFIELD MICHAEL & TYLENE	12-1-47
E1	EARNEST ALLEN DOUGLAS	12-1-40	G3	BARTOLOVICH STEPHEN M	12-1-11
F1	HENRY LORI MYLES	12-1-41	H3	LEASURE ANNA	12-1-30
G1	MARPLE JEFFREY J & BARBARA J	12-1-32.1	I3	SCHELLHASE MARK A ET UX	12-1-18
H1	HIGGINS CONSTANCE L - LIFE	12-1-7.3	J3	ADASE GEORGE & LAURIE	12-1-28
I1	RUNKLE SHERRY L	12-1-7.2	K3	GRAY JOHN A ET UX	12-1-28.2
J1	SLIGAR KAREN SCHENK & TERRY B	12-1-5.2	L3	SAVAGE CHARLES JACKSON	12-1-29.1
K1	SLIGAR KAREN SCHENK	12-1-5	M3	PALMER ADAM R	12-1-26
L1	REARDON SHELLEY S	12-1-5.6	N3	FRAZIER GREGORY SCOTT - TOD	12-1-24
M1	HAMILTON MARY SCHENK & GARY P	12-1-5.4	O3	DUFF JAMES E & BROOKE L CAPP	12-1-22
N1	WETMORE BROOKE L & BRIAN B	12-1-5.5	P3	DUFF JAMES E & BROOKE L CAPP	12-1-22.1
O1	ROMAGNOLI JUDY E	12-1A-23	Q3	FOLMAR EDITH A TRUST	12-1-19
P1	ROMAGNOLI JUDY E	12-1A-22	R3	ISALY ROBERT A SR EST	12-9-9
Q1	ROMAGNOLI JUDY E	12-1A-27	S3	PIKEWOOD ENERGY CORP	12-9-10
R1	LUCAS DAVID S JR	12-1A-4	T3	PROVANANCE FRANK J & ELIZABETH & BARRY F	13-3-14.5
S1	YOST HAROLD JACK & INA K	16-1-35	U3	SHEPHERD TIMOTHY & DEBORAH L	13-3-14.4
T1	FLATLEY R KEVIN	16-1-36	V3	JESTERS COURT 13 INC	13-3-14.3
U1	ATLAS REAL ESTATE LLC	16-1-35.2	W3	JESTERS COURT 13 INC	13-3-14.2
V1	FLATLEY R KEVIN	16-1-37	X3	JESTERS COURT 13 INC	13-3-14.1
W1	WHEELING POWER CO WHEELING ELECTRIC CO	10-W99-2	Y3	GRAY JOHN ALVIN	12-9-11
X1	WHEELING POWER COMPANY WHEELING ELECTRIC CO	10-W99-1	Z3	MERINAR JAMES MARTIN ET UX	12-9-15.1
Y1	TJG PROPERTIES LLC	13-2-16	A4	MERINAR CALVIN C - LIFE	12-9-15
Z1	TJG PROPERTIES LLC	10-W99-4	B4	MERINAR CALVIN C - LIFE	12-9-19
A2	TJG PROPERTIES LLC	10-W99-3	C4	GRAY JARED	13-3-14.7
B2	STEVICK DENISE A	10-W99-7			

*Highlighted Parcels may be impacted during drilling

REVISIONS:	COMPANY:	 		DATE: 07-18-2023
		OPERATOR'S	BETTY SCHAFFER MSH	API #
		WELL #:	205H	47-051-
		DISTRICT:	SAND HILL	COUNTY:
			MARSHALL	STATE:
				WV
				DRAWN BY: N. MANO
				SCALE: N/A
				DRAWING NO:
				WELL LOCATION PLAT 5

10/13/2023